

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1426

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1426

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Phe Gly Thr Ala Lys Tyr Ser Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val  
 100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
 165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1427

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1427

Glu Ala Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Thr Arg Gly Tyr Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Glu Leu  
 100 105 110

Gly Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Pro Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Ala Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1428

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1428

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
35 40 45

Ser Val Ile Ser Lys Asp Gly Asn Lys Lys Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

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65              70              75              80
Leu Gln Met Asn Ser      Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                        85                        90                        95

Ala Lys Asp Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Asn Gln
      100      105      110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser
      115      120      125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln
      130      135      140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser
145      150      155      160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn
      165      170      175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met
      180      185      190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser
      195      200      205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
      210      215      220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser
225      230      235      240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
      245      250

<210> 1429
<211> 247
<212> PRT
<213> Homo sapiens

<400> 1429
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1          5          10          15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr
      20      25      30

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Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu  
 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly  
 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1430

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1430

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Arg Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
 180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
 195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1431  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<400> 1431  
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Ser Ser  
 20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Thr Lys Asp Arg Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1432

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1432

Gln Val Gln Leu Leu Gln Ser Ala Gly Gly Val Val Arg Pro Gly Gly  
1 5 10 15

Ser Gln Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
20 25 30

Gly Ile His Trp Val Arg Gln Gly Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ala Phe Ile Thr Ser Asn Gly Ser Asn Lys Tyr Tyr Gly Asp Thr Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Met Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Ser Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Ser  
100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly  
115 120 125



Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1433

<211> 242

<212> PRT

<213> Homo sapiens

<400> 1433

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140

Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160

Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175

Val Leu Val Ile Tyr Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp  
 180 185 190

Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205

Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp  
 210 215 220

Ser Ser Gly Asn His Val Leu Phe Gly Arg Gly Thr Lys Leu Thr Val  
 225 230 235 240

Leu Gly

<210> 1434

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1434

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1435

<211> 252

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1435

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Asn Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
 100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                             245                            250

<210> 1436

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1436

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
     1                            5                            10                            15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Asn Tyr  
                             20                            25                            30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                             35                            40                            45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
     50                            55                            60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
     65                            70                            75                            80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
                             100                            105                            110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
                             115                            120                            125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
     130                            135                            140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
     145                            150                            155                            160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
                             165                            170                            175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
                             180                            185                            190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1437

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1437

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Trp Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1438

<211> 242

<212> PRT

<213> Homo sapiens

<400> 1438

Gly Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Ser Ser  
20 25 30

Pro Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Asp Ile Val Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Lys Gly

100

105

110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140

Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160

Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175

Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp  
 180 185 190

Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205

Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp  
 210 215 220

Ser Ser Gly Asn His Val Leu Phe Gly Gly Thr Lys Leu Thr Val  
 225 230 235 240

Leu Gly

<210> 1439

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1439

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60



Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1440

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1440

Gly Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Phe Cys Lys Ala Ser Gly Gly Thr Phe Asn Thr Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Leu Ile Pro Lys Phe Gly Thr Pro Lys Tyr Ala Gln Asn Phe  
50 55 60

Gln Asp Arg Leu Thr Ile Thr Ala Asp Thr Leu Thr Gly Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Ser Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg His Ser Lys Glu Tyr Asn Trp Asn Tyr Ala Leu Asp Tyr Trp  
100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
130 135 140

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
145 150 155 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

&lt;210&gt; 1441

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1441

Glu Val Gln Leu Val Gln Ser Gly Gly Asp Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Pro Phe Asp Asp Tyr  
 20 25 30

Asp Met Asn Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
 35 40 45

Ser Tyr Ile Thr Val Arg Gly Thr Ser Val Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Glu Met Lys Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Arg Ser Gln Phe Asp Phe Leu Thr Gly Val Asp Arg Tyr  
 100 105 110

His Pro Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1442

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1442

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
 20 25 30

Thr Phe Ser Trp Ile Arg Gln Ala Pro Gly His Trp Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln Lys Ser  
 50 55 60

Arg Gly Gly Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Glu Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Ala Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140

Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys  
 145 150 155 160

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr  
 165 170 175

Gln Gln His Ser Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser  
 180 185 190

Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1443

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1443

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly

115

120

125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
 195 200 205

Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1444

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1444

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
130 135 140

Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
145 150 155 160

Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
165 170 175

Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp  
180 185 190

Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
195 200 205

Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp  
210 215 220

Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
225 230 235 240

Leu Gly

<210> 1445

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1445

Gln Val Gln Leu Gln Gln Ser Gly Ala Lys Val Lys Arg Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Pro Ser Gly Ala Thr Phe Ser Gly Tyr  
20 25 30

Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
 100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  
 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1446

<211> 248



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

Gln Val Gln Leu Gln Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Ala Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly His Pro Thr Tyr Gly Met  
 100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met  
 130 135 140

Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Gly Ile Asn Asn Tyr Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Arg Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser  
 180 185 190

Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala  
 210 215 220

Thr Tyr Tyr Cys Leu Gln Asp Ser Asp Tyr Pro Leu Thr Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg  
 245

<210> 1447

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1447

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala  
 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala  
 50 55 60

Pro Val Lys Gly Gly Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr  
 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
 85 90 95

Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp  
 100 105 110

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser  
225 230 235 240

Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1448

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1448

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Ser  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Tyr Gly Thr Ala Asn Tyr Ala Gln Arg Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Ser Thr Tyr Asp Ile Leu Thr Gly Ser Tyr His Asp Tyr  
100 105 110

Gly Leu Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Tyr

130                      135                      140  
 Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val  
 145                      150                      155                      160  
 Thr Ile Ser Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val  
 165                      170                      175  
 Lys Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr  
 180                      185                      190  
 Gly Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser  
 195                      200                      205  
 Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu  
 210                      215                      220  
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly  
 225                      230                      235                      240  
 Ser Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
 245                      250  
  
 <210> 1449  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1449  
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly  
 1                      5                      10                      15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn  
 20                      25                      30  
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35                      40                      45  
 Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
 50                      55                      60  
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu  
 65                      70                      75                      80  
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85                      90                      95

Arg Asp Arg Leu His Tyr Asp Ile Leu Thr Gly His Gln Thr Asp Asp  
100 105 110

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ala Arg Ser Thr  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1450

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1450

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Asn Phe  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Phe Ile Pro Val Phe Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Glu Phe Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Leu Thr Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Glu  
100 105 110

Asp Ala Phe Asp Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1451

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1451

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Val Ile Asn Pro Ser Gly Asp Gly Thr Ser Tyr Ala Gln Lys Phe  
 50 55 60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80  
 Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val  
 130 135 140  
 Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser  
 145 150 155 160  
 Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro  
 165 170 175  
 Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser  
 180 185 190  
 Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser  
 195 200 205  
 Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220  
 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1452

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1452

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Thr Tyr Asn Gly Asp Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Gly Ala Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu  
115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
145 150 155 160

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
165 170 175

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
180 185 190



Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val  
195 200 205

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
210 215 220

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser  
225 230 235 240

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1453

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1453

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asp  
20 25 30

Ser Val Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu  
35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp His Thr Asp Tyr Ala  
50 55 60

Val Ser Leu Lys Ser Arg Met Thr Ile Asn Pro Asp Thr Ser Arg Asn  
65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val  
85 90 95

Tyr Tyr Cys Ala Arg Glu Gly Ala His Tyr Asp Ile Leu Thr Gly His  
100 105 110

Asn Tyr Tyr His Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val  
115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly

130                      135                      140  
 Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser  
 145                      150                      155                      160  
 Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val  
 165                      170                      175  
 Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180                      185                      190  
 Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser  
 195                      200                      205  
 Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile  
 210                      215                      220  
 Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr  
 225                      230                      235                      240  
 Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
 245                      250                      255  
 Leu Gly  
 <210> 1454  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1454  
 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ser  
 1                      5                      10                      15  
 Ser Val Asn Val Ser Cys Lys Val Ser Gly Gly Thr Phe Gly Ser Ser  
 20                      25                      30  
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35                      40                      45  
 Gly Arg Ile Ile Pro Val Leu Gly Thr Thr Asn Tyr Ala Gln Arg Phe  
 50                      55                      60  
 Gln Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Asn Thr Val Asn  
 65                      70                      75                      80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Ala Arg Glu Thr Arg Lys Tyr Thr Ser Ser Pro Pro Tyr Asn Tyr Tyr  
100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Arg Ser Ile  
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1455

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1455

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Thr Gly Gly Ile Phe Ser Ser Tyr  
20 25 30

Ala Met Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Thr Pro Ile Leu Gly Thr Thr His Tyr Ala Pro Glu Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu  
 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly  
 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1456

<211> 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1456

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Val Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Tyr  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Gly Leu Arg Asn Tyr Tyr Ala Asn Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Val Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Arg Ala Glu Asp Gly Gly  
 210 215 220

Val Tyr Tyr Cys Asn Tyr Arg Asp Ser Ser Gly Ala Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1457

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1457

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Arg Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Ala Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Tyr Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1458

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1458

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr  
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Ser Gly Asn Ala Gly Ser Asn Lys Tyr Tyr Ala Asp Ser  
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Asp Tyr Pro Gly Ser Glu Tyr Asp Ile Leu Thr Gly Tyr  
100 105 110

Leu Phe Gly Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr  
115 120 125

Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

130                      135                      140  
 Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
 145                      150                      155                      160  
 Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 165                      170                      175  
 Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala  
 180                      185                      190  
 Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile  
 195                      200                      205  
 Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val  
 210                      215                      220  
 Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser  
 225                      230                      235                      240  
 Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu  
 245                      250                      255  
 Thr Val Leu Gly  
 260  
 <210> 1459  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1459  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr  
 20                      25                      30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35                      40                      45  
 Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Asn Tyr Ala Gln Lys Phe  
 50                      55                      60  
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Gly Thr Val Tyr  
 65                      70                      75                      80



Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1460

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1460

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser  
1 5 10 15

Ser Val Thr Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Arg Thr Ala  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45

Gly Gly Ile Ile Pro Ile Leu Gly Pro Pro Asn Tyr Ala Gln Ile Leu  
 50 55 60

Lys Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Ala Arg Arg Val Gly Val Leu Gly Gly Lys Asn Ala Phe Glu  
 100 105 110

Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Glu Leu Thr Val Leu Gly  
 245 250

<210> 1461

<211> 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1461

Gln Val Gln Leu Val Gln Thr Gly Gly Gly Val Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Tyr Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Gly Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr  
 165 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp  
 180 185 190

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1462

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1462

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1463

<211> 256

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1463

Arg Val Gln Cys Gln Lys Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Lys Asn Tyr  
20 25 30

Asp Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Xaa Arg Thr Arg Xaa Xaa Ala Asn Ser Tyr Thr Thr Glu Tyr Ala Ala  
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser  
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
85 90 95

Tyr Cys Ala Arg Glu Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
100 105 110

Pro Leu Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val  
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly  
145 150 155 160

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser  
165 170 175

Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu  
180 185 190

Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu  
210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser  
225 230 235 240

Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1464

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1464

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
 180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
 195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1465

<211> 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1465

Glu Val Gln Leu Val Glu Thr Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Ser Ser Asn  
 20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ala Ile Ile Pro Met Phe Lys Thr Ala His Tyr Ala Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Asn Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Gly Ser Ser Gln Asn Phe Tyr Gly Met Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro  
 130 135 140

Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser  
 145 150 155 160

Gly Thr Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

Phe Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Asp Asn Gly Lys Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser  
 195 200 205

Ala Thr Leu Ala Ile Ala Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr  
 210 215 220



Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Val Thr Val Leu Gly  
 245

<210> 1466

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1466

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Thr  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Gly Gly Thr Asn Ile Gly Arg Asp Arg  
 165 170 175

Val Thr Trp Tyr Gln Gln Val Pro Gly Thr Pro Pro Lys Leu Leu Ile  
180 185 190

Tyr Lys Thr Ser Gln Arg Pro Ser Arg Val Pro Asp Arg Phe Ser Ala  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Asp Ile Ser Gly Leu Arg Ser  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Val Val Trp Asp Asp Ser Leu Arg  
225 230 235 240

Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1467

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1467

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Thr Phe Ser Arg Ser  
20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Gly Ser Ile Pro Ile Phe Gly Pro Pro Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ile Leu Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Val Val Trp Val Ala Tyr Gly Asp Val Gly Ile Tyr Gly  
100 105 110

Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser

130                      135                      140

Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
145                      150                      155                      160

Thr Ile Ser Cys Thr Gly Ser Ser Thr Asp Leu Gly Asp Tyr Ser Ser  
165                      170                      175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Ile Ile  
180                      185                      190

Tyr Asp Val Asn Asn Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly  
195                      200                      205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Ala Leu Gln Ala  
210                      215                      220

Asp Asp Glu Ala Asp Tyr His Cys Gly Ser Tyr Thr Asp His Leu Thr  
225                      230                      235                      240

Arg Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245                      250

<210> 1468  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 1468  
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1                      5                      10                      15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20                      25                      30

Gly Phe Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35                      40                      45

Gly Arg Ile Ile Pro Asp Phe Glu Thr Thr Tyr Tyr Ser Gln Lys Leu  
50                      55                      60

Gln Asp Arg Val Thr Met Thr Ala Asp Thr Cys Thr Ser Thr Ser Tyr  
65                      70                      75                      80

Met Glu Leu Asn Ser Leu Arg Ser Asp Asp Thr Ala Ile Tyr Tyr Cys  
85                      90                      95

Ala Arg His Asp Tyr Tyr Ile Met Thr Ala Ala His Tyr Tyr Tyr Asp  
100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
180 185 190

Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Ile His Leu Gly Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1469

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1469

Gln Val Gln Leu Val Gln Ser Gly Pro Asp Val Lys Asn Pro Gly Ala  
1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Leu Asn Tyr  
20 25 30

Asp Ile Asn Trp Val Arg Gln Thr Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asn Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Arg Leu Ser Ser Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Gly Ile Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
100 105 110

Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg  
145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
165 170 175

Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
180 185 190

Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Gly Ser Leu Ser  
225 230 235 240

Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1470

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1470

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Phe Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe Asp  
 100 105 110  
 Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
 130 135 140  
 Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
 145 150 155 160  
 Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
 165 170 175  
 Pro Gly Gln Ala Pro Val Leu Val Val Tyr Ala Lys Asn Lys Arg Pro  
 180 185 190  
 Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205  
 Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220  
 Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1471

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1471

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Phe Thr Phe Ser Asn Ala  
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Ala Asp Tyr Ala Ala  
50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr  
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Asp Val Tyr  
85 90 95

Tyr Cys Thr Thr Asp Val Asp Asp Ile Leu Thr Gly Tyr Ser Trp Asp  
100 105 110

Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1472

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1472

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr



145	150	155	160
Cys Gln Gly Asp Ser	Leu Arg Ser Tyr Tyr	Thr Asn Trp Phe Gln Gln	
	165	170	175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

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<210> 1473
<211> 251
<212> PRT
<213> Homo sapiens
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<400> 1473  
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Ala Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly His Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Lys Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1474

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1474

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ser Arg Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Asn Phe  
50 55 60

Gln Gly Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Met His Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Gly Leu  
 100 105 110

Ala Phe Asp Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Thr Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1475

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; Site

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1475

Gln Val Gln Leu Gly Ala Val Leu Gly Ala Lys Val Lys Lys Pro Gly  
 1 5 10 15

Ser Ser Val Lys Val Ser Cys Arg Ala Ser Xaa Gly Thr Xaa Arg Gly  
 20 25 30

Tyr Thr Val Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp  
 35 40 45

Met Gly Arg Ile Asn Pro Met Ser Asn Gly Ala Asn Tyr Ala Gln Lys  
 50 55 60

Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala  
 65 70 75 80

Tyr Leu Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr  
 85 90 95

Cys Ala Arg Gly Gly Tyr Asp Ile Leu Thr Gln Tyr Pro Ala Glu Phe  
 100 105 110

Phe His Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Thr Ile Thr Cys Gln Gly Asp Ser Val Arg Asn Phe Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Ile Tyr Gly  
 180 185 190

Gln Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Arg  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp

210                      215                      220  
 Glu Gly Val Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Thr Asn Pro Val  
 225                      230                      235                      240  
  
 Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                          245                      250  
  
 <210> 1476  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1476  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
   1                      5                      10                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Ser  
                          20                      25                      30  
  
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
   35                      40                      45  
  
 Gly Gly Ile Ile Pro Ile Ser Asn Ser Pro Val Tyr Ala Gln Lys Phe  
   50                      55                      60  
  
 Gln Asp Arg Val Thr Ile Thr Ala Asp Arg Leu Thr Thr Thr Ala Phe  
   65                      70                      75                      80  
  
 Leu Glu Leu Thr Gly Leu Lys His Glu Asp Thr Ala Val Tyr Tyr Cys  
                          85                      90                      95  
  
 Ala Arg Asp Phe Gly Val Ile Gly Asp Tyr Arg Pro Phe Asp Tyr Trp  
                          100                      105                      110  
  
 Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
                          115                      120                      125  
  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
   130                      135                      140  
  
 Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
   145                      150                      155                      160  
  
 Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
                          155                      170                      175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1477

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1477

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Ser Ser Phe Ser Asp Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Glu Thr Val Pro Ile Leu Gly Thr Gln Thr Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Thr Phe  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Ser Ser Asn Pro Val Tyr Gly Leu Asp Val Trp Gly Arg Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1478

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1478

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Ser Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1479

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1479

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met



35	40	45
Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe		
50	55	60
Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr		
65	70	75
Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys		
85	90	95
Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe		
100	105	110
Asp Ile Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly		
115	120	125
Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu		
130	135	140
Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile		
145	150	155
Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser		
165	170	175
Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu		
180	185	190
Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys		
195	200	205
Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp		
210	215	220
Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val		
225	230	235
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly		
245	250	

&lt;210&gt; 1480

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1480

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Asp Asn Tyr  
 20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asp Gly Asp Arg Asn Tyr Ala Gln Lys Leu  
 50 55 60

Arg Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Asp Arg Asp Ile Leu Thr Asn Tyr Tyr Leu Glu Tyr Phe  
 100 105 110

Gln His Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Ser  
 145 150 155 160

Ile Thr Cys Ser Gly His Asn Leu Gly Asp Lys Tyr Val Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr Gln Asp Thr  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly  
 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met Asp Glu Ala  
 210 215 220

Asp Tyr Ser Cys Gln Thr Trp Asp Gly Ser Thr Ser Ser Val Val Phe

225

230

235

240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1481

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1481

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp  
 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe  
 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser  
 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly  
 130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr  
 145 150 155 160

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile  
 165 170 175

Gly Gly His Thr Val Asn Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro  
 180 185 190

Lys Leu Leu Ile Phe Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Ala  
195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser  
210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp  
225 230 235 240

Asp Ser Leu Asn Gly His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1482

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1482

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Val Pro Ile Leu Gly Arg Thr Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Lys Thr Leu Gly Asp Gln Leu Val Glu Ala Tyr Tyr Tyr  
100 105 110

Asp Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala  
130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala Leu Gly  
145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Thr Thr Tyr Tyr  
165 170 175

Gly Ser Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
180 185 190

Phe Gly Asn Asn Asn Arg Pro Ser Arg Ile Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp Asn Ser Asp Asn  
225 230 235 240

Asp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1483

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1483

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser His  
20 25 30

Thr Phe Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Met Phe Asp Thr Ala Val Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Leu Gly Arg Thr Ser Arg Asp Leu Leu Thr Gly Tyr His Phe  
100 105 110

Tyr Asn Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Gly Ser Tyr  
165 170 175

Ala Asn Trp Tyr Arg Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met  
180 185 190

Tyr Gly Arg Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn  
225 230 235 240

Pro Asp Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250 255

<210> 1484

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1484

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35	40	45																							
Gly	Arg	Val	Val	Pro	Gly	Phe	Glu	Thr	Thr	Asn	Tyr	Ser	Gln	Lys	Phe										
50						55						60													
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Trp	Thr	Ala	Thr	Ser	Tyr										
65						70						75						80							
Met	Glu	Leu	Asn	Gly	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys										
					85						90						95								
Ala	Arg	Asp	Asp	Tyr	Asp	Ile	Leu	Thr	Gly	Ser	Leu	Tyr	Tyr	Phe	Asp										
					100						105						110								
Ser	Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly										
					115						120						125								
Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ala	Leu	Ser	Ser	Glu										
					130						135						140								
Leu	Thr	Gln	Asp	Pro	Ala	Val	Ser	Val	Ala	Leu	Gly	Gln	Thr	Val	Arg										
145						150						155						160							
Ile	Thr	Cys	Gln	Gly	Asp	Asn	Leu	Arg	Thr	Tyr	Pro	Pro	Thr	Trp	Tyr										
					165						170						175								
Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	Gly	Lys	Asn										
					180						185						190								
Asn	Arg	Pro	Leu	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Phe	Asn	Ser	Gly										
					195						200						205								
Asn	Thr	Ala	Ser	Leu	Thr	Ile	Ser	Gly	Ala	Gln	Ala	Glu	Asp	Glu	Ala										
					210						215						220								
Asp	Tyr	Tyr	Cys	Ser	Ser	Arg	Asp	Tyr	Ser	Gly	Asn	Gln	Val	Ile	Phe										
225						230						235						240							
Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly																
					245						250														

&lt;400&gt; 1485

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Asp Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala Ser  
 145 150 155 160

Ala Ser Leu Thr Cys Thr Leu Arg Ser Asp Ile Asn Leu Glu Thr Ser  
 165 170 175

Arg Ile Tyr Trp Phe Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu  
 180 185 190

Leu Arg Tyr Gln Ser Asp Ser Asp Asn His Leu Asp Ser Gly Val Pro  
 195 200 205

Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Leu  
 210 215 220

Leu Ile Ser Gly Val Gln Ser Glu Asp Glu Ala Asp Tyr His Cys Met



225

230

235

240

Ile Trp His Ser Gly Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr  
 245 250 255

Val Leu Gly

&lt;210&gt; 1486

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; Site

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; Site

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1486

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Leu Thr Phe Asn Ser His  
 20 25 30

Trp Met Ser Trp Val Arg Gln Gly Pro Gly Lys Gly Leu Gly Trp Leu  
 35 40 45

Ala Asn Ile Xaa Gln Asp Gly Ser Glu Lys Tyr Tyr Met Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Xaa Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Val Arg Asp Arg Ala Asp Ile Leu Thr Gly Tyr Asn Asp Ala Phe Asp  
 100 105 110

Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Met Ser Val Ala Leu Gly Gln Thr Val Trp  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Ser Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr Ala Lys Asn  
180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asp Ser Arg Asp Ser Ser Arg His His Val Met Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1487

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1487

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu  
35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val  
100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
130 135 140

Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser  
145 150 155 160

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile His Thr Asn  
180 185 190

Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Arg Ser Leu Ser Ala Trp Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1488  
<211> 253  
<212> PRT  
<213> Homo sapiens

<400> 1488  
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
130 135 140

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
145 150 155 160

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
165 170 175

Phe Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Ala Leu Ile Ile Tyr  
180 185 190

Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
195 200 205

Asn Ala Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Leu Ala Met  
210 215 220

Asp Glu Ala Val Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ala Gly Asn  
225 230 235 240

Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1489

<211> 254

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1489

Gln Leu Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asp Tyr  
 20 25 30

Ser Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Pro Lys Ser Gly Ala Thr Asn Ser Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Ser Asn Asp Ile Leu Thr Gly Trp Gly Gly Tyr Asn Trp  
 100 105 110

Phe Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
 165 170 175

Val His Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile  
 180 185 190

Phe Asn Asn Ser Gly Arg Pro Ser Gly Val Pro Asp Arg Tyr Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
 225 230 235 240

Gly Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1490

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1490

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Tyr Phe Ala  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Ile Ile Tyr  
 180 185 190

Gly Lys Thr Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
195 200 205

Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Lys  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Arg Asp Ser Ser Gly Asn His  
225 230 235 240

Val Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1491

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1491

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
. 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Thr Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Phe Pro Gly Thr  
165 170 175

Ala Pro Lys Leu Leu Ile Asn Arg Asn Asn Gln Arg Pro Ser Gly Val  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
210 215 220

Trp Asp Asp Ser Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val  
225 230 235 240

Thr Val Leu Gly

<210> 1492

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1492

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu



100 105 110  
 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140  
 Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Arg Ser Gly Ser  
 145 150 155 160  
 Asn Ile Gly Ala Gly Asn Asp Val His Trp Tyr Gln Gln Phe Pro Gly  
 165 170 175  
 Thr Ala Pro Lys Leu Leu Ile Tyr Ala Asn Asn Asn Arg Pro Ser Gly  
 180 185 190  
 Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
 195 200 205  
 Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
 210 215 220  
 Ser Tyr Asp Asn Arg Leu Ser Gly Gly Asp Val Val Phe Gly Gly Gly  
 225 230 235 240  
 Thr Lys Leu Thr Val Leu Gly  
 245  
 <210> 1493  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1493  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala,  
 20 25 30  
 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45  
 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
130 135 140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Thr Ser Asn Ile Ala Thr Asn Ala Val Asn Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
180 185 190

Thr Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Ala Gly Gln Gly  
225 230 235 240

Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1494  
<211> 257  
<212> PRT  
<213> Homo sapiens

<400> 1494  
Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Ser Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg  
145 150 155 160

Val Thr Ile Ser Cys Thr Gly Asn Ser Ser Asn Ile Gly Ala Gly Tyr  
165 170 175

Glu Val His Trp Tyr Gln Leu Val Pro Gly Thr Ala Pro Lys Leu Leu  
180 185 190

Ile Tyr Gly Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
200 205

Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp Arg Ser Leu  
225 230 235 240

Ser Gly Ser His Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
245 250 255

Gly

&lt;210&gt; 1495

&lt;211&gt; 252

&lt;212&gt; FRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1495

Glu Val Gln Leu Val Glu Thr Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Ala Glu Tyr Phe  
 100 105 110

Gln His Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Ser Val Ser  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asn  
 180 185 190

Asn Ser Asn Arg Pro Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Asn Ser Leu Asn Gly Val  
 225 230 235 240

Leu Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1496

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1496

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Val Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Ile Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Trp Val Pro Ala  
 100 105 110

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile  
145 150 155 160

Ser Cys Thr Gly Gly Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln Tyr Pro Gly Lys Ala Pro Lys Leu Ile Val Asn Glu  
180 185 190

Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asn Tyr Tyr Cys Ala Ser Tyr Ala Gly Asn Asn Asn Val Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1497

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1497

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Met Ile Pro Thr Phe Gly Thr Ala Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr

100 105 110  
 Phe His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
 115 120 125  
 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140  
 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala  
 145 150 155 160  
 Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile  
 165 170 175  
 Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala  
 180 185 190  
 Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro  
 195 200 205  
 Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile  
 210 215 220  
 Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr  
 225 230 235 240  
 Asp Ser Ser Leu Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Val Thr  
 245 250 255  
 Val Leu Gly  
 <210> 1498  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1498  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
130 135 140

Gly Ala Pro Gly His Ser Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
145 150 155 160

Asn Ile Gly Gly Asn Ser Val Tyr Trp Tyr Gln Gln Val Pro Gly Thr  
165 170 175

Ala Pro Lys Leu Leu Ile Tyr Asp Asn Gly Lys Arg Pro Ser Gly Ile  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Ala  
195 200 205

Ile Ala Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr  
210 215 220

Trp Asp Ser Ser Leu Ser Ala Val Val Phe Gly Gly Gly Thr Lys Val  
225 230 235 240

Thr Val Leu Gly

<210> 1499

<211> 253

<212> PRT

<213> Homo sapiens



&lt;400&gt; 1499

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Val Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Met Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Thr Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Val Phe Asp Pro Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu  
 130 135 140

Glu Thr Thr Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly  
 145 150 155 160

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Asn Ser  
 165 170 175

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 180 185 190

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
 195 200 205

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
 210 215 220

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
 225 230 235 240

Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
245 250

<210> 1500

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1500

Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Thr His  
20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Phe Ala Gln Lys Val  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr His Thr Pro Leu  
100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Pro Val  
130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser  
180 185 190

Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Gln Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Ala Val  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1501

<211> 251

<212> FRT

<213> Homo sapiens

<400> 1501

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gln Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Val Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser  
180 185 190

His Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Ala Ser Thr Ser  
195 200 205

Asp Thr Ala Ala Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly Asp Glu  
210 215 220

Ala Asp Tyr Phe Cys Gly Ala Trp Asp Ser Lys Leu Asn Ala Tyr Val  
225 230 235 240

Phe Gly Thr Gly Thr Gln Leu Thr Val Leu Ser  
245 250

<210> 1502

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1502

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ile Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser

100 105 110  
 Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140  
 Ser Tyr Val Leu Thr Gln Pro Pro Ser Leu Ser Val Ser Pro Gly Gln  
 145 150 155 160  
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp Lys Tyr Val  
 165 170 175  
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Met Val Ile Tyr  
 180 185 190  
 Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 195 200 205  
 Asn Ser Gly Asn Ala Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 210 215 220  
 Asp Glu Ala Glu Tyr Tyr Cys Gln Ala Trp Asp Arg Thr Thr Ala Asp  
 225 230 235 240  
 Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250  
 <210> 1503  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1503  
 Glu Val Gln Leu Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro  
 1 5 10 15  
 Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
 20 25 30  
 Asn Phe Asp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu  
 35 40 45  
 Trp Val Ala Val Ile Ser Tyr Asn Gly Arg Thr Lys Tyr Tyr Leu Asp  
 50 55 60

Ser Val Lys Gly Arg Phe Ile Ile Ser Arg Asp Asn Ser Lys His Thr  
65 70 75 80

Val Asp Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr  
85 90 95

Tyr Cys Ala Lys Gly Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr  
100 105 110

Pro Tyr Leu Tyr Tyr Gly Leu Asp Val Trp Gly Arg Gly Thr Met Val  
115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
130 135 140

Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser  
145 150 155 160

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
165 170 175

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Val Pro Gly Thr  
180 185 190

Ala Pro Lys Leu Leu Ile Tyr Ser Asn Ser His Arg Ser Ser Gly Val  
195 200 205

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
210 215 220

Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Ala Tyr Tyr Cys Glu Ser  
225 230 235 240

Arg Asp Asp Ser Leu Asn Gly Asn Val Val Phe Gly Gly Gly Thr Lys  
245 250 255

Leu Thr Val Leu Gly  
260

<210> 1504

<211> 255

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1504

Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Asn Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Gly Arg Gly Tyr Asp Val Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg  
 145 150 155 160

Val Thr Ile Ser Cys Thr Gly Ile Ser Ser Asn Ile Gly Ala Gly Tyr  
 165 170 175

Asp Val His Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 180 185 190

Ile Tyr Gly Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Ala Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp Asn Arg Leu  
 225 230 235 240

Ser Gly His Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1505

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1505

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ile Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ser Ser Asp Asp Val His  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Val Ile Tyr Gly  
 180 185 190



Asn Asp Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Ser Ala  
 225 230 235 240

Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1506

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1506

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Ala Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Lys Val Thr Ile Thr Ala Asp Lys Leu Thr Ile Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ile Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ser Ser Val Asp Val His  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Val Ile Tyr Gly  
180 185 190

Asn Glu Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Ser Ala  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1507

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1507

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr  
20 25 30

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Gln Asn Gly Lys Thr Asn Leu Ala Gln Arg Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe  
65 70 75 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Val Met Tyr Tyr Cys  
85 90 95

Ala Ala Ser Gly Pro Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Leu

100                      105                      110  
 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
     115                      120                      125  
 Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
     130                      135                      140  
 Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
     145                      150                      155                      160  
 Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr  
     165                      170                      175  
 Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val  
     180                      185                      190  
 Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
     195                      200                      205  
 Ile Ser Gly Leu Gln Ser Glu Asp Gly Ala Asp Tyr Tyr Cys Ala Ala  
     210                      215                      220  
 Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly Thr Lys Leu  
     225                      230                      235                      240  
 Thr Val Leu Gly  
  
 <210> 1508  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1508  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
     1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Asn Arg Tyr  
     20                      25                      30  
 Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
     35                      40                      45  
 Gly Gly Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Arg Leu  
     50                      55                      60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Thr Thr Asp Arg Phe Gly Ala Lys Asp Val Thr Ala Arg Trp Gly  
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala  
130 135 140

Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
165 170 175

Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
180 185 190

Tyr Gly Asn Ser Asn Arg Pro Ser Val Val Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
225 230 235 240

Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1509

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1509

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Gln Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Glu Gly  
100 105 110

Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala  
130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr  
165 170 175

Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
180 185 190

Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn  
225 230 235 240

Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

&lt;210&gt; 1510

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1510

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Phe Ile Ser Ser Arg  
 20 25 30

Thr Ser Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
 35 40 45

Trp Ile Gly Asn Ile Tyr Tyr Thr Gly Lys Thr Tyr Tyr Ser Pro Ser  
 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Ala Asp Thr Ser Lys Asn Gln Leu  
 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95

Cys Ala Arg Ala Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Phe Tyr Phe  
 100 105 110

Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val  
 130 135 140

Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Thr Thr Val Ala  
 165 170 175

Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser  
 180 185 190

Asn Asp Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Pro His Val Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1511

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1511

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr  
 20 25 30

Glu Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Asn Ile Lys Glu Asp Gly Arg Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Val Arg Gly Arg Asn Tyr Tyr Asp Phe Leu Thr Gly Tyr Asn Phe Asn  
 100 105 110

Leu Gly Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
 130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
 145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Tyr Tyr  
 165 170 175

Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
 180 185 190

Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Ser Ser Gly Ile Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
 210 215 220

Asp Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Thr Thr Gly His  
 225 230 235 240

His Leu Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1512

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1512

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Asn Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Thr Tyr Lys Ser Tyr Ala Asp Ser Met  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Asn Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly



115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
     130                                      135                                      140  
  
 Thr Gln Pro Ser Ser Asp Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
     145                                      150                                      155                                      160  
  
 Ser Cys Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn Ala Val Ser Trp  
                     165                                      170                                      175  
  
 Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
                     180                                      185                                      190  
  
 Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe-Ser Gly Ser Lys Ser  
                     195                                      200                                      205  
  
 Ala Thr Ser Ala Ala Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
                     210                                      215                                      220  
  
 Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Thr Leu Asn Ala Glu Val  
     225                                      230                                      235                                      240  
  
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                     245                                      250  
  
 <210> 1513  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1513  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
     1                                      5                                      10                                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Gly Arg  
                     20                                      25                                      30  
  
 Thr Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                     35                                      40                                      45  
  
 Gly Gly Ser Asp Pro Pro Tyr Gly Glu Pro Ile Tyr Ala Gln Lys Phe  
     50                                      55                                      60  
  
 Gln Asp Arg Val Thr Ile Thr Glu Asp Thr Leu Thr Asn Thr Ala Tyr  
     65                                      70                                      75                                      80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Arg Lys Ala Gln Asp Ile Trp Gly Arg Gly Thr Met  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser Ala  
145 150 155 160

Asn Ile Gly Thr Ile Tyr Val Asn Trp Tyr Gln Gln Val Pro Gly Ala  
165 170 175

Ala Pro Lys Leu Leu Met Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
180 185 190

Phe Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ser Asp Tyr Tyr Cys Ala Thr  
210 215 220

Trp Asp Asp Ser Leu Arg Arg Val Val Phe Gly Gly Gly Thr Lys Leu  
225 230 235 240

Thr Val Leu Gly

<210> 1514

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1514

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
1 5 10 15

Ser Leu Lys Ile Ser Cys Gln Gly Ser Gly Tyr Thr Phe Thr Asp Tyr  
20 25 30

Trp Ile Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Asp Pro Ser Asn Ser Tyr Asp Asp Tyr Ser Pro Ser Phe  
 50 55 60

Lys Gly Arg Val Ile Ile Ser Ser Asp Glu Ser Asn Ala Thr Ala Tyr  
 65 70 75 80

Leu Val Trp Asp Ser Leu Gln Ala Ser Asp Ser Ala Thr Tyr Tyr Cys  
 85 90 95

Ala Arg Leu Lys Ala Pro Tyr Tyr Asp Leu Leu Thr Gly Tyr His Leu  
 100 105 110

Pro Lys Trp Phe Asp Thr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro  
 145 150 155 160

Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Asn Thr Ser Asn Ile Gly  
 165 170 175

Thr Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys  
 180 185 190

Leu Leu Ile Tyr Arg Asn His Gln Trp Pro Ser Gly Val Pro Asp Arg  
 195 200 205

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly  
 210 215 220

Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp  
 225 230 235 240

Ser Leu Arg Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

&lt;210&gt; 1515

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1515

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val  
 130 135 140

Ser Val Ala Pro Gly Lys Thr Ala Arg Ile Thr Cys Gly Gly Asp Asn  
 145 150 155 160

Ile Gly Ser Lys Ser Val His Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
 165 170 175

Pro Val Leu Val Thr Asp Tyr Asp Ile Asp Arg Pro Ser Gly Ile Pro  
 180 185 190

Glu Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Thr Leu Thr Ile  
 195 200 205

Ser Arg Val Glu Gly Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp  
 210 215 220

Asp Ser Val Thr Asp His Val Val Phe Gly Gly Gly Thr Lys Val Thr  
 225 230 235 240

Val Leu Gly

<210> 1516

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1516

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Arg Ser  
 145 150 155 160

Asn Ile Gly Thr Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Ala Asp Asn Asn Arg Pro Ser Gly  
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
195 200 205

Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
210 215 220

Ser His Asp Ser Ser Leu Gly Gly Ser Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Val Thr Val Leu Gly  
245

<210> 1517

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1517

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Val  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly

115                      120                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130                      135                      140  
 Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Trp Val Thr Ile  
 145                      150                      155                      160  
 Pro Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp  
 165                      170                      175  
 Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
 180                      185                      190  
 Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195                      200                      205  
 Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
 210                      215                      220  
 Ala Asn Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly His Val  
 225                      230                      235                      240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245                      250  
 <210> 1518  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1518  
 Gln Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
 1                      5                      10                      15  
 Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg  
 20                      25                      30  
 Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35                      40                      45  
 Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
 50                      55                      60  
 Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65                      70                      75                      80

Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp  
100 105 110

Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
130 135 140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Val  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Tyr Asn Ser Val Asn Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
180 185 190

Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Tyr Asp Ser Leu Ser Gly His Val  
225 230 235 240

Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
245 250

<210> 1519

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1519

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30



Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Lys Arg Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Phe Asp  
 100 105 110  
 Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140  
 Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Ser Val  
 145 150 155 160  
 Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His  
 165 170 175  
 Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly  
 180 185 190  
 Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Val Ser Lys  
 195 200 205  
 Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220  
 Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Thr  
 225 230 235 240  
 Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
 245 250

&lt;210&gt; 1520

&lt;211&gt; 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1520

Glu Val Gln Leu Val Gln Ser Gly Gly Glu Val Lys Arg Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Lys Thr Ser Phe Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Thr Thr Val Asp  
 65 70 75 80

Met Glu Leu Arg Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Met Gly Tyr Phe  
 100 105 110

Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Val Thr Gln Pro Pro Ser Ala Pro Gly Ser Pro Gly Gln Ser Val Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Lys Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Glu Gly Ser Asn Asn Ala  
 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1521

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1521

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
 165 170 175

Thr Val Pro Lys Leu Leu Ile Tyr Gly Asp Ser His Arg Pro Ser Gly  
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
195 200 205

Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
210 215 220

Ser Phe Asp Asn Ser Leu Ser Ala Ser Ile Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1522

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1522

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln

130

135

140

Ser Val Leu Thr Gln Pro Pro Ser Met Ser Ala Ala Pro Gly Gln Lys  
 145 150 155 160

Val Thr Ile Pro Cys Ser Gly Gly Ser Ser Asn Ile Gly Thr Arg Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln Val Pro Gly Thr Val Pro Lys Leu Ile Ile  
 180 185 190

Tyr Asp Asn Asp Lys Arg Pro Ser Gly Ile Ser Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Phe Leu Gly Ile Thr Gly Leu Gln Thr  
 210 215 220

Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Arg Ser Leu Asn  
 225 230 235 240

Ala Gly Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

&lt;210&gt; 1523

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1523

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Thr Val Val Ile Gln Glu Pro Ser Leu Thr  
130 135 140

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ile Thr Gly  
145 150 155 160

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Phe Gln Gln Lys Pro Gly  
165 170 175

Gln Ala Pro Arg Ala Leu Ile Tyr Ser Thr Asp Asn Lys His Ser Trp  
180 185 190

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Asp Lys Ala Ala Leu  
195 200 205

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Leu  
210 215 220

Leu Tyr Tyr Gly Gly Ala Gln Pro Trp Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Val Thr Val Leu Gly  
245

<210> 1524

<211> 244

<212> FRT

<213> Homo sapiens

<400> 1524

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Thr Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Val Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
 210 215 220

Trp Asp Asp Ser Phe Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1525

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1525

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30  
 Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45  
 Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60  
 Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80  
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Ala Tyr Phe Cys  
 85 90 95  
 Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110  
 Pro Leu Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140  
 Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160  
 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Lys  
 165 170 175  
 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190  
 Ile His Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205  
 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Ser Ile Ser Gly Leu Gln  
 210 215 220  
 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser Gly  
 225 230 235 240



Thr Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1526

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1526

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Thr Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr  
20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Ala Thr Asn His Ala Gln Arg Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
65 70 75 80

Met Asp Val Ser Gly Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Arg Arg Asp Asp Leu Thr Gly Tyr Leu Tyr Asp Ala  
100 105 110

Phe Asp Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser  
130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
145 150 155 160

Val Lys Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser  
165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly  
180 185 190

Arg Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Tyr His Leu  
225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1527

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1527

Gln Ile Thr Leu Lys Glu Phe Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Gly Ser Ser Gly Phe Thr Phe Pro Glu His  
20 25 30

Ser Met Asp Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45

Ala Arg Ser Arg Asn Arg His Val Ser His Ser Thr Asp Tyr Ala Ala  
50 55 60

Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Phe Leu Thr Asn Ser  
65 70 75 80

Leu Ile Leu Gln Leu Asn Asp Leu Lys Thr Glu Asp Thr Ala Arg Tyr  
85 90 95

Tyr Cys Ala Ser Gly Tyr Asp Thr Ala Met Gln Tyr Trp Gly Arg Gly  
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro  
130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly

145                      150                      155                      160  
 Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu  
                          165                                      170                                      175  
 Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asp Asn Arg Arg Pro  
                          180                                      185                                      190  
 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala  
                          195                                      200                                      205  
 Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
                          210                                      215                                      220  
 Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly  
 225                                      230                                      235                                      240  
 Thr Lys Val Thr Val Leu Gly  
    245  
 <210> 1528  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1528  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
                          20                                      25                                      30  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                          35                                      40                                      45  
 Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
                          50                                      55                                      60  
 Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
                          65                                      70                                      75                                      80  
 Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                          85                                      90                                      95  
 Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
                          100                                      105                                      110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Ala Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser  
145 150 155 160

Asn Ile Gly Ser Ser Ser Val Ile Trp Tyr Gln Arg Leu Pro Gly Thr  
165 170 175

Ala Pro Lys Leu Leu Ile Phe Tyr Asn Asn Gln Arg Pro Ser Gly Val  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Asn Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
210 215 220

Trp Asp Thr Ser Leu Asn Gly His Val Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1529

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1529

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Gly  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
35 40 45

Gly Trp Ile Ser Ala Phe Asn Gly Gln Thr Asn Tyr Ala Gln Lys Val  
50 55 60

Gln Gly Arg Leu Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Ser  
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Arg Asp Ile Leu Thr Gly Ser Asn Phe Gly Gln Asp  
100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
145 150 155 160

Cys Ser Gly Gly Ser Ala Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr  
165 170 175

Lys Gln Leu Pro Gly Thr Ala Pro Lys Thr Leu Ile Tyr Thr Thr Asn  
180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Gly  
210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Glu Ser Leu Ser Gly Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1530

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1530

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Tyr Tyr Ser Gln Lys Leu  
 50 55 60

Gln Asp Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Gly His Tyr Asp Ile Leu Thr Gly Tyr Arg His Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Thr Ile Thr Cys Gln Gly Asp Ser Leu Lys Ser Tyr Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Asn  
 180 185 190

Lys Asn Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Thr Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ala Arg Asp Arg Ser Gly Ile His Ser  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1531

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1531

Lys Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys  
 145 150 155 160

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Tyr Ile Val Ser Asn  
 165 170 175

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val  
 180 185 190

Ile Tyr Glu Asp Asp Arg Arg Pro Ser Gly Val Pro His Arg Phe Ser  
 195 200 205

Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly  
210 215 220

Leu Gln Thr Glu Asp Glu Gly Asp Tyr Tyr Cys Gln Ser Tyr Asp Lys  
225 230 235 240

Thr Ser Arg Val Ile Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
245 250 255

Gly

<210> 1532

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1532

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
130 135 140

Gly Ala Pro Gly Gln Ser Val Ser Val Ser Cys Thr Gly Ser Ile Ser



145                      150                      155                      160

Asn Ile Gly Thr Gly Tyr Asp Val His Trp Tyr Gln His Leu Pro Gly  
                                  165                                   170                                   175

Arg Gly Pro Lys Val Leu Ile Tyr Gly Asn Asn Asp Arg Pro Trp Gly  
                                  180                                   185                                   190

Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu  
                                  195                                   200                                   205

Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Gly Asp Tyr Phe Cys Gln  
                                  210                                   215                                   220

Thr Tyr Asp Asn Glu Leu Ser Gly Tyr Val Phe Gly Ser Gly Thr Lys  
                                  225                                   230                                   235                                   240

Leu Thr Val Leu Gly  
                                  245

&lt;210&gt; 1533

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1533

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                                  1                                   5                                   10                                   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
                                  20                                   25                                   30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                  35                                   40                                   45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
                                  50                                   55                                   60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
                                  65                                   70                                   75                                   80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                                  85                                   90                                   95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
                                  100                                   105                                   110

Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val  
 130 135 140

Ser Val Ser Ala Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Val  
 145 150 155 160

Leu Ser Lys Lys Tyr Val Tyr Trp Tyr Arg Gln Lys Ser Gly Gln Ala  
 165 170 175

Pro Val Leu Val Ile Tyr Glu Asn Thr Lys Arg Pro Ser Gly Ile Pro  
 180 185 190

Asp Arg Leu Ser Gly Ser Arg Ser Gly Thr Met Ala Thr Leu Thr Val  
 195 200 205

Thr Gly Ala Gln Val Gly Asp Glu Ala Asp Tyr Tyr Cys His Ser Thr  
 210 215 220

Tyr Ile Ser Asn Asp Gln Trp Val Phe Gly Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

<210> 1534

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1534

Glu Val Gln Leu Val Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Ser His  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Trp Ser Ser Ala His Asp Asp Asn Thr Lys Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Ala Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Pro Tyr Tyr Asp Pro Leu Thr Ala Tyr Thr Phe Gln Tyr Phe  
100 105 110

Gly Asn Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Glu Thr  
130 135 140

Thr Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg  
145 150 155 160

Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu  
165 170 175

Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr  
180 185 190

Gly Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser  
195 200 205

Gly Ser Gly Thr Asp Phe Ser Leu Thr Ile Ser Arg Leu Glu Pro Glu  
210 215 220

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ile Ser Pro Gly Leu  
225 230 235 240

Ser Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
245 250

<210> 1535

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1535

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Arg Pro Gly Gln Ala Pro Ala Leu Val Phe Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Leu Asp Gly Asn His Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

&lt;210&gt; 1536

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1536

Glu Val Gln Leu Val Glu Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg  
 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Ile Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Arg Asn Thr Val Thr Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Thr  
 180 185 190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Asp Asp Glu  
 210 215 220

Ala Asp Tyr Phe Cys Ala Ala Trp Asp Asp Ser Leu Gln Ala Leu Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1537

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1537

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95

Ala Arg Leu Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Ser Gly Phe  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val  
 130 135 140

Leu Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asp Ile Gly Arg Asn Thr Val Asn

165 170 175  
 Trp Tyr Arg Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile His Thr  
 180 185 190  
 Ile Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205  
 Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Trp Asp Asp Ser Leu Asn Ala Trp  
 225 230 235 240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250  
 <210> 1538  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1538  
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Gln Pro Ser Gln  
 1 5 10 15  
 Thr Leu Ser Leu Thr Cys Asn Val Ser Gly Gly Ser Ile Ser Ser Asn  
 20 25 30  
 Ser Asp Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
 35 40 45  
 Trp Ile Gly Asn Val Tyr His Thr Gly Thr Thr Phe Tyr Thr Pro Ser  
 50 55 60  
 Leu Arg Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe  
 65 70 75 80  
 Ser Leu Gln Val Ala Ser Val Thr Gly Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95  
 Cys Ala Arg Arg Phe Tyr Asp Leu Leu Thr Gly Tyr Ser Ala Phe Asp  
 100 105 110  
 Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Ala Ile  
145 150 155 160

Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser  
180 185 190

Ile Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Thr Ser Leu Asn Ala Tyr Val  
225 230 235 240

Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1539  
<211> 255  
<212> PRT  
<213> Homo sapiens

<400> 1539  
Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80



Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg  
145 150 155 160

Val Thr Ile Ser Cys Thr Gly Ile Ser Ser Asn Ile Gly Ala Gly Tyr  
165 170 175

Ala Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Arg Leu Leu  
180 185 190

Ile Tyr Gly Asn Val Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Arg Leu  
225 230 235 240

Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1540

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1540

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Ser  
 145 150 155 160

Ile Asn Cys Gly Gly Asn Thr Ile Gly Ser Lys Thr Val Gln Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Val Val Val Tyr Asp Asp Asn  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Asp Asp Gly Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1541

<211> 252

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1541

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Ser Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Pro Val Ile Tyr  
 180 185 190

Thr Lys Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 195 200 205

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Arg Asp Arg Ser Gly His Gly  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1542

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1542

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Arg Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Asp Tyr  
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ile Trp Asn Gly Gly Thr Thr Asp Tyr Ala Asp Thr Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Tyr Tyr Asp Val Leu Thr Gly Leu Phe Tyr Tyr Met Asp  
 100 105 110

Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Glu Leu Leu Ile Tyr Ser Asn

180 185 190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp Asp Ser Leu Asn Gly Trp Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1543  
<211> 253  
<212> PRT  
<213> Homo sapiens

<400> 1543  
Glu Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Asp Asn Tyr  
20 25 30

Gly Ile Ala Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asp Gly Asp Arg Asn Tyr Ala Gln Lys Leu  
50 55 60

Arg Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Asp Arg Asp Ile Leu Thr Asn Tyr Tyr Leu Glu Tyr Phe  
100 105 110

Gln His Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val  
130 135 140

Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Ser Thr Ser Asn Ile Gly Ala Gly Tyr Asp Val  
 165 170 175

His Trp Tyr Gln Gln Leu Pro Gly Arg Ala Pro Lys Leu Leu Ile Tyr  
 180 185 190

Ala Asn Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Thr Ala Ser  
 195 200 205

Lys Ser Gly Thr Thr Ala Ser Leu Ala Ile Thr Gly Leu Gln Thr Asp  
 210 215 220

Asp Glu Ala Gly Tyr Tyr Cys Gln Ala Tyr Asp Lys Asn Ile Glu Glu  
 225 230 235 240

Tyr Val Phe Gly Ser Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1544

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1544

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Val Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Arg Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Asn  
225 230 235 240

Ile Glu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1545

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1545

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Ser Gly Gln Arg  
145 150 155 160

Val Thr Ile Pro Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Gly Ser  
165 170 175

Val Ser Trp Tyr Gln Gln Phe Pro Gly Ser Ala Pro Lys Phe Leu Ile  
180 185 190

Ser Gly Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Val Ser  
195 200 205

Lys Ser Gly Thr Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Thr Thr Leu Asn Ala  
225 230 235 240

Trp Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1546

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1546

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly



1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Asp Ser Ile Arg Gly Gly  
20 25 30

His Trp Trp Asn Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp  
35 40 45

Ile Gly Glu Val Tyr His Ser Gly Ser Thr Asn Ser Asn Pro Ser Leu  
50 55 60

Lys Ser Arg Val Thr Leu Ser Ala Asp Lys Ser Lys Asn Leu Phe Ser  
65 70 75 80

Leu Ser Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Asp Tyr Asp Val Leu Thr Gly Tyr Leu Arg Lys Leu Asp  
100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu  
130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Arg Thr Val Asn Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Val Tyr Ser Thr  
180 185 190

Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ala Trp Asp Asp Ser Leu Asn Gly Pro Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1547

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1547

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala  
130 135 140

Ser Val Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser  
145 150 155 160

Thr Asn Ile Gly Ser Thr Tyr Val Asn Trp Tyr Gln His Leu Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Met Tyr Asn Asn Asn Glu Arg Pro Ser Gly  
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu

195

200

205

Ala Ile Thr Gly Val Arg Ser Gly Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1548

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1548

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly  
 20 25 30

Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp  
 35 40 45

Ile Gly Ser Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu  
 50 55 60

Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser  
 65 70 75 80

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val His Tyr Asp Ile Leu Thr Gly Tyr Leu Trp Ala Phe Asp  
 100 105 110

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Thr Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1549

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1549

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Ser Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ile Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln His Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Lys  
180 185 190

Asn Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Thr Leu Val Ile Thr Gly Leu Gln Thr Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser His Ser Ala  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1550

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1550

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser  
145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Arg His Leu Pro Gly Thr  
165 170 175

Ala Pro Glu Leu Leu Ile Tyr Asn Asn Asn Arg Arg Pro Ser Gly Val  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Arg Gly Leu Arg Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
210 215 220

Trp Asp Asp Ser Leu Ser Val Tyr Tyr Val Phe Gly Thr Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1551

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1551

Gln Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg

20

25

30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Val  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Ser Trp  
 165 170 175

Tyr Arg Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser  
 180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Ser Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Gly Leu Ser Ala Val Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

&lt;210&gt; 1552

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1552

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1

5

10

15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser

20

25

30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met

35

40

45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe

50

55

60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr

65

70

75

80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser

100

105

110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly

115

120

125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln

130

135

140

Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala Ser

145

150

155

160

Ala Ser Leu Thr Cys Thr Leu Arg Ser Asp Ile Asn Leu Glu Thr Ser

165

170

175

Arg Ile Tyr Trp Phe Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu

180

185

190

Leu Arg Tyr Gln Ser Asp Ser Asp Asn Asn Leu Asp Ser Gly Val Pro

195

200

205

Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Leu



210                      215                      220  
 Leu Ile Ser Gly Val Gln Ser Glu Asp Glu Ala Asp Tyr His Cys Met  
 225                      230                      235                      240  
 Ile Trp His Ser Gly Gly Ser Val Phe Gly Gly Gly Thr Gln Leu Thr  
                     245                      250                      255  
 Val Leu Thr  
  
 <210> 1553  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1553  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
                     20                      25                      30  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                     35                      40                      45  
 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
   50                      55                      60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
   65                      70                      75                      80  
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                      90                      95  
 Ala Arg Asn Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Trp Asp  
                     100                      105                      110  
 Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
   115                      120                      125  
 Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
   130                      135                      140  
 Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro  
 145                      150                      155                      160

Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly  
165 170 175

Ser Asn Ile Val His Trp Tyr Gln Gln Phe Pro Gly Ser Ala Pro Lys  
180 185 190

Leu Leu Ile Asn Ser Asn Tyr Leu Arg Pro Ser Gly Val Pro Asp Arg  
195 200 205

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly  
210 215 220

Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp  
225 230 235 240

Ser Leu Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
245 250 255

Gly

<210> 1554

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1554

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Asn Tyr  
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ala Val Ile Ser Tyr Asp Gly Thr Tyr Lys Ser Tyr Ala Asp Ser Met  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Asn Tyr Phe Asp  
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
130 135 140

Thr Gln Pro Ser Ser Asp Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Trp Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn Ala Val Ser Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Ser Lys Leu Leu Ile Tyr Ser Asn  
180 185 190

Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Ala Thr Ser Ala Ala Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Thr Leu Asn Ala Glu Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1555

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1555

Gln Val Gln Leu Val Pro Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Thr His Tyr Asp Ile Leu Thr Gly Tyr Tyr Ser His Pro Leu  
100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser  
130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
145 150 155 160

Thr Ile Thr Cys Gln Gly Asp Ser Leu Arg Thr Tyr Pro Thr Thr Trp  
165 170 175

Tyr Gln Gln Arg Pro Arg Gln Ala Pro Val Ala Val Ile Ser Gly Lys  
180 185 190

Asn Tyr Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Thr Ser  
195 200 205

Gly Asp Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Met Ser Arg Asp Ser Ser Gly Thr Phe Val Leu  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Ser  
245 250

<210> 1556

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1556

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

1	5	10	15																
Ser	Val	Lys	Val	Ser	Cys	Arg	Ala	Ser	Gly	Gly	Ser	Phe	Asn	His	Ala	Ala			
			20					25						30					
Ile	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Met	Gly				
		35					40					45							
Gly	Ile	Leu	Pro	Met	Tyr	Gly	Thr	Ala	Asn	Tyr	Ala	Gln	Lys	Phe	Gln				
	50					55					60								
Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Leu	Thr	Asn	Thr	Val	Tyr	Met				
65					70					75					80				
Asp	Leu	Ser	Arg	Leu	Arg	Tyr	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala				
				85					90						95				
Arg	Glu	Leu	Gly	Leu	Ser	Ile	Val	Gly	Ala	Thr	Thr	Gly	Ala	Leu	Asp				
		100						105					110						
Met	Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly				
		115					120						125						
Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ala	Gln	Ser	Val	Val				
130						135						140							
Thr	Gln	Pro	Pro	Ala	Val	Ser	Ala	Ala	Pro	Gly	Gln	Lys	Val	Thr	Ile				
145					150						155				160				
Ser	Cys	Ser	Gly	Ser	Ser	Asn	Ile	Gly	Ser	Tyr	Tyr	Val	Ser	Trp					
			165					170						175					
Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Asp	Asn				
			180					185						190					
Asp	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Val	Ser	Lys	Ser				
	195						200					205							
Gly	Thr	Ser	Ser	Thr	Leu	Ala	Ile	Thr	Gly	Leu	Gln	Thr	Gly	Asp	Glu				
	210					215						220							
Ala	Asp	Tyr	Tyr	Cys	Gly	Thr	Trp	Asp	Ser	Ser	Leu	Ser	Ala	Gly	Val				
225					230					235					240				

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1557

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1557

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ile Ser Tyr  
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Ser Ile Tyr Glu Asp Lys Val Lys Tyr Ala Glu Lys Phe  
50 55 60

Gln Gly Arg Leu Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Pro Tyr Asp Ile Leu Thr Gly Tyr Trp Gly Ala Phe Asp  
100 105 110

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Thr Gly Ala Gly Tyr Asp Val His  
165 170 175

Trp Tyr Lys Gln Leu Pro Arg Thr Ala Pro Gln Leu Leu Ile Tyr Arg  
180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

195

200

205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Glu Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Leu Ser Gly Ser  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

&lt;210&gt; 1558

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1558

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
100 105 110

Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Val Thr Ile Ser Cys Thr Gly Thr Ser Asn Asp Val Ser Ala Tyr Lys  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln Tyr Pro Gly Arg Ala Pro Lys Leu Ile  
180 185 190

Leu Tyr Glu Val Thr Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
210 215 220

Ala Asp Asp Glu Ala Thr Tyr Phe Cys Ser Ser Phe Ala Gly Ser Asn  
225 230 235 240

Asn Phe Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1559

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1559

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
100 105 110



Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Val Ala Ile Ser Cys Thr Gly Thr Ser Asn Asp Val Ser Ala Tyr Lys  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln Tyr Pro Gly Arg Ala Pro Lys Leu Ile  
180 185 190

Leu Tyr Glu Val Thr Asn Arg Pro Ser Gly Val Ile Asp Arg Phe Ser  
195 200 205

Gly Cys Lys Ser Ala Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
210 215 220

Pro Asp Asp Glu Asp Thr Tyr Phe Cys Ser Ser Phe Ala Gly Ser Ser  
225 230 235 240

Ser Phe Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1560

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1560

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Pro Ser Val Ser Gly Pro Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1561

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1561

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

	20										25										30
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	35						40									45					
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu	50					55					60										
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr	65				70					75										80	
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys				85					90									95			
Ala Arg Val Tyr Trp Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp			100					105													
Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly			115				120							125							
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr	130					135						140									
Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser	145					150					155									160	
Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp				165						170									175		
His Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly			180					185							190						
Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser			195					200							205						
Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu			210				215							220							
Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe	225					230							235							240	
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly				245							250										

&lt;210&gt; 1562

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1562

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1

5

10

15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

20

25

30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35

40

45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu

50

55

60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ala Tyr

65

70

75

80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe

100

105

110

Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly

115

120

125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu

130

135

140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile

145

150

155

160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

165

170

175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu

180

185

190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

195

200

205

Pro Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp

210                                      215                                      220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225                                      230                                      235                                      240  
  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250  
  
 <210> 1563  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1563  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                      5                                      10                                      15  
  
 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Lys His  
                                     20                                      25                                      30  
  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
  
 Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
                                     50                                      55                                      60  
  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
   65                                      70                                      75                                      80  
  
 Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
                                     85                                      90                                      95  
  
 Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
                                     100                                      105                                      110  
  
 Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                                     115                                      120                                      125  
  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
                                     130                                      135                                      140  
  
 Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
   145                                      150                                      155                                      160  
  
 Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
                                     165                                      170                                      175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1564

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1564

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Arg His  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
100 105 110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
145 150 155 160

Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1565

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1565

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Lys His  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                                  90                                  95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
                   100                                  105                                  110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                   115                                  120                                  125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
                   130                                  135                                  140

Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr  
                   145                                  150                                  155                                  160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser  
                   165                                  170                                  175

Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu  
                   180                                  185                                  190

Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys  
                   195                                  200                                  205

Ser Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp  
                   210                                  215                                  220

Glu Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe  
                   225                                  230                                  235                                  240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                   245                                  250

<210> 1566

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1566

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                   1                                  5                                  10                                  15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Arg His  
                   20                                  25                                  30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met



35	40	45
Gly Gly Ile Leu Pro Met Tyr Gly, Thr Ala Asn Tyr Ala Gln Lys Phe 50 55 60		
Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr 65 70 75 80		
Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95		
Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu 100 105 110		
Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125		
Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val 130 135 140		
Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr 145 150 155 160		
Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser 165 170 175		
Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu 180 185 190		
Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys 195 200 205		
Ser Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp 210 215 220		
Glu Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe 225 230 235 240		
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250		

&lt;400&gt; 1567

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Ala Gly Asn Ser Asn Thr Lys Tyr Ser Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ser Asp Thr Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Gly Ala Pro Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Lys Gly Thr Leu  
 115 120 125

Ala Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala  
 145 150 155 160

Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn  
 165 170 175

Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180 185 190

Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro  
 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile  
 210 215 220

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp

225                      230                      235                      240

Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

&lt;210&gt; 1568

<211> 244

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1568

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Arg Ser  
145                      150                      155                      160

Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly  
 180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
 195 200 205

Ala Ile Thr Gly Leu Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Gln  
 210 215 220

Ser Tyr Asp Thr Ser Leu Arg Gly Leu Phe Gly Thr Gly Thr Lys Val  
 225 230 235 240

Thr Val Leu Gly

<210> 1569

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1569

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Ala Thr Ile Ser Cys Ser Gly Ser Ser Ser  
145 150 155 160

Asp Ile Gly Ile Asn Ala Val Asn Trp Tyr Lys Gln Leu Pro Arg Thr  
165 170 175

Ala Pro Lys Leu Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Ile Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
210 215 220

Trp Asp Asp Ser Leu Thr Ala Tyr Val Phe Gly Thr Gly Thr Lys Val  
225 230 235 240

Thr Val Leu Gly

<210> 1570

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1570

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr Leu  
145 150 155 160

Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr Gln  
165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp Val  
180 185 190

Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly Asn  
195 200 205

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Ala  
210 215 220

Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe Gly  
225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1571

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1571

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Ala Ser Ala Ala Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe Gly  
225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
245

&lt;400&gt; 1572

Gln Val His Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
 180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe Gly



225

230

235

240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
245

&lt;210&gt; 1573

<211> 249

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1573

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1574

<211> 250

<212> FRT

<213> Homo sapiens

<400> 1574

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Val Asp Gly  
 35 40 45

Arg Asp Pro Pro Tyr Val Trp Tyr Ser Lys Leu Cys Thr Glu Val Pro  
 50 55 60

Arg Ala Glu Ser Arg Ser Pro Arg Thr Thr Leu Thr Asn Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
 100 105 110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
 145 150 155 160

Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
 180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
 210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1575

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1575

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Ile Ile  
 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Pro Asp Tyr Asp Val His  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly  
 180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala His Tyr Tyr Cys Gln Ser Tyr Gly Ser Ser Leu Ser Gly Val  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1576

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1576

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Thr Tyr Asn Gly Asn Thr Arg Tyr Pro Gln Lys Leu

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Gln	Gly	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr																	
65					70					75					80																	
Met Asp Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys																																
										85											90											95
Ala Arg Asp Gly Arg Leu Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ala																																
										100											105											110
Arg Asp Tyr Tyr Gly Met Asp Asp Trp Gly Arg Gly Thr Met Val Thr																																
										115											120											125
Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly																																
										130											135											140
Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro																																
										145											150											155
Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly																																
										165											170											175
Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro																																
										180											185											190
Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn																																
										195											200											205
Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser																																
										210											215											220
Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr																																
										225											230											235
Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu																																
										245											250											255

Gly

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<210> 1577
<211> 241
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 1577

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Asp Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Met Ser Ser Leu Lys Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Ser Glu Gly Thr Ile Phe Gly Val Asp Trp Gly Arg Gly Thr  
 100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Phe Leu  
 130 135 140

Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln  
 145 150 155 160

Gly Ile Asn Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Arg Ala  
 165 170 175

Pro Lys Leu Leu Met Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro  
 180 185 190

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
 195 200 205

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Asp  
 210 215 220

Ser Asp Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

225

230

235

240

Arg

&lt;210&gt; 1578

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1578

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly  
 20 25 30

Tyr Tyr Trp Gly Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp  
 35 40 45

Ile Gly Ser Ile Tyr His Ser Gly Ser Thr Tyr His Asn Pro Ser Leu  
 50 55 60

Lys Ser Arg Val Thr Ile Ser Met Asp Thr Ser Lys Asn Gln Phe Ser  
 65 70 75 80

Leu Asn Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Lys Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Asp  
 100 105 110

Asn Trp Phe Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1579

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1579

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Thr Pro Ser Ser Val Tyr Asp Leu Leu Thr Gly Tyr Tyr His  
100 105 110

Tyr Phe Tyr Ser Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr  
115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
130 135 140



Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro  
 145 150 155 160

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly  
 165 170 175

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Glu Ala Pro  
 180 185 190

Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn  
 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser  
 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr  
 225 230 235 240

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 245 250 255

Gly

<210> 1580

<211> 242

<212> PRT

<213> Homo sapiens

<400> 1580

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Phe  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Val Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ala Ile Ile Pro Lys Phe Asp Ile Val Thr Tyr Ala Glu Glu Phe  
 50 55 60

Lys Gly Arg Val Thr Ile Ser Ala Asp Lys Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Val Lys Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Thr Arg Glu Lys Ser Ala Ala Gly Tyr Phe Asp Tyr Trp Gly Lys Gly  
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Asp Ile Val Met Thr Gln Ser Pro Ser Thr  
130 135 140

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser  
145 150 155 160

Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Arg  
165 170 175

Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser Thr Leu Glu Ser Gly Val  
180 185 190

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
195 200 205

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
210 215 220

Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile  
225 230 235 240

Lys Arg

<210> 1581

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1581

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

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Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
 100 105 110

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1582

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1582

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Ala Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr  
 165 170 175

Ala Pro Lys Val Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
 210 215 220

Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Val

225

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Thr Val Leu Gly

&lt;210&gt; 1583

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1583

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ile Cys Trp Arg Gln Ala Pro Ala Arg Gln Leu Glu Gly Met Ile  
 35 40 45

Gly Ile Leu Ile Met Tyr Gly Thr Ala Asp Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Asn Leu Thr Asn Thr Ala Tyr Met  
 65 70 75 80

Asp Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Lys Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Ala Ser Gly Ser Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Ile Trp  
 165 170 175

Trp Gln Gln Leu Pro Ala Ala Ala Ala Asn Leu Leu Met Tyr Ser Asn  
 180 185 190

Asn Arg Arg Pro Ser Gly Val Leu Glu Arg Phe Ser Gly Cys Lys Tyr  
 195 200 205

Gly Ala Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Gln Glu Asp Glu  
 210 215 220

Asp Val Ile Ile Thr Val Gln His Gly Met Pro Ala Leu Lys Gly Trp  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1584

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1584

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Glu  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Val Leu Gly Val Ala Asp Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Lys Ile Ser Val Asp Arg Leu Thr Ser Val Ala Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Gly Met Asn Asp Phe Ile Asn Ser His His Tyr Tyr Thr  
 100 105 110

Met Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala  
 130 135 140

Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
165 170 175

Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
180 185 190

Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
225 230 235 240

Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1585

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1585

Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser His Tyr Pro Phe Thr Thr Tyr  
20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Asn Tyr Asn Gly His Thr Arg Tyr Ala Pro Lys Phe  
50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Lys Ser Leu Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Asn Glu Tyr Gly His Thr Glu Arg Pro Ala Asp Tyr  
100 105 110

Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu Thr  
130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser  
145 150 155 160

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Thr Pro Lys Leu Leu Ile Ser Arg Asn  
180 185 190

Asn Asn Arg Pro Pro Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Thr Leu Arg Gly Trp Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1586

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1586

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu



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Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Asp

245

250

&lt;210&gt; 1588

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1588

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Asp  
 245

<210> 1589

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1589

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Tyr Ile Val Pro Val Phe Gly Thr Ala Thr Tyr Ala Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Phe  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Leu Ala Thr Arg Pro Leu Gly Met Asp Val Trp Gly Arg  
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser  
 130 135 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr  
 145 150 155 160

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1590

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1590

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Tyr Glu  
 130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Ser Asn Ala Val Asn  
 165 170 175

Trp Tyr Arg Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Val Tyr Ser  
 180 185 190

Asn Asn Gln Val Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Tyr  
 225 230 235 240

Val Phe Gly Thr Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1591

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1591

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

65	70	75	80
Asp Leu Ser Arg	Leu Arg Tyr	Glu Asp Thr Ala Val	Tyr Tyr Cys Ala
	85	90	95
Arg Glu Leu Gly	Leu Ser Ile Val	Gly Ala Thr Thr	Gly Ala Leu Asp
	100	105	110
Met Trp Gly Arg	Gly Thr Leu Val	Thr Val Ser Ser	Gly Gly Gly Gly
	115	120	125
Ser Gly Gly Gly	Gly Ser Gly Gly	Gly Ser Ala Gln	Ser Val Val
	130	135	140
Thr Gln Pro Pro	Ser Ala Ser Gly	Thr Pro Gly Gln	Arg Val Thr Val
	145	150	155
Ser Cys Ser Gly	Gly Arg Ser Asn	Ile Gly Ser Asn	Thr Val Ser Trp
	165	170	175
Tyr Gln Gln Leu	Pro Gly Thr Ala	Pro Lys Leu Leu	Ile Tyr Ser Asn
	180	185	190
Asp Glu Arg Pro	Ser Gly Val Pro	Asp Arg Phe Ser	Gly Ser Asn Ser
	195	200	205
Gly Thr Ser Ala	Ser Leu Ala Ile	Ser Gly Leu Gln	Ser Glu Asp Glu
	210	215	220
Ala Asp Tyr Tyr	Cys Ala Ala Trp	Asp Asp Ser Leu	Asn Gly Val Ala
	225	230	235
Phe Gly Gly Gly	Thr Lys Leu Thr	Val Leu Gly	
	245	250	

&lt;210&gt; 1592

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1592

Gln Val Gln Leu	Val Gln Ser Gly	Ala Glu Val Lys	Lys Pro Gly Ala
1	5	10	15

Ser Val Lys Val	Ser Cys Lys Thr	Ser Gly Tyr Thr	Phe Thr Gly Tyr
20	25	30	

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Ser Pro Ser Asn Gly Asp Thr Ser Tyr Ala Gln Thr Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp His Phe Asp Thr Leu Thr Gly Tyr Phe Arg Arg Leu Asp  
 100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Glu Val Ser Val Ala Leu Gly Gln Thr Val Thr  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Ile Thr His Tyr Ala Ser Trp Phe  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Phe Tyr Ser Lys Asp  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Tyr Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Arg Gly Lys Asn His Val Ala  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1593



&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1593

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
 100 105 110

Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1594

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1594

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ala Gln Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ser  
 100 105 110

Tyr Ala Phe Asp Ile Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser  
 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp  
 165 170 175

Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1595

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1595

Gln Val Gln Leu Val Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
100 105 110

Tyr Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1596

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1596

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Gly Lys Tyr  
 20 25 30

Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Gly Pro Ser Thr Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
100 105 110

Thr Pro Tyr Tyr Tyr Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr  
115 120 125

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser  
130 135 140

Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val  
145 150 155 160

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg  
165 170 175

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val  
180 185 190

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg  
195 200 205

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly  
210 215 220

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser  
225 230 235 240

Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
245 250 255

Gly

<210> 1597

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1597

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Ser Ser Gly  
1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ala Ser Ile Leu Glu Gly  
20 25 30

Asp Tyr Phe Trp Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
 35 40 45  
 Trp Ile Gly Glu Ile Asn His Arg Gly Asp Ile Asn Tyr Asn Pro Ser  
 50 55 60  
 Leu Lys Ser Arg Val Thr Ile Leu Val Asp Thr Ser Lys Asn Gln Leu  
 65 70 75 80  
 Ser Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95  
 Cys Ala Arg His Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg  
 100 105 110  
 Gly His Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140  
 Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 145 150 155 160  
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
 165 170 175  
 Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu  
 180 185 190  
 Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser  
 195 200 205  
 Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln  
 210 215 220  
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu  
 225 230 235 240  
 Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

&lt;210&gt; 1598

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1598

Gly Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
 100 105 110

Leu Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr  
 165 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp  
 180 185 190

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Ser  
 245 250

<210> 1599  
 <211> 248  
 <212> FRT  
 <213> Homo sapiens

<400> 1599  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Leu Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Tyr Tyr Ala Gln Lys Phe  
 50 55 60

Arg Gly Arg Ile Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Gly Pro Gly Leu Leu Ser Ser Phe Phe Glu Ser Trp  
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Ala Leu Thr Gln Pro  
 130 135 140

Ala Ser Val Ser Gly Ser Arg Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145 150 155 160

Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp Tyr Val Ser Trp Tyr Gln  
 165 170 175



Gln His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn  
 180 185 190

Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly Ile Ile Met Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1600

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1600

Gln Val Arg Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ala Pro Tyr  
 100 105 110

Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly  
145 150 155 160

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser  
165 170 175

Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu  
180 185 190

Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu  
210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser  
225 230 235 240

Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1601

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1601

Gln Val Gln Leu Gln Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
100 105 110

Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Glu Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1602  
<211> 253  
<212> PRT  
<213> Homo sapiens

<400> 1602  
Glu Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu  
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile Ser Glu Asn  
20 25 30

Trp Trp Ser Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45

Gly Glu Ile Thr His Ser Gly Asn Thr His Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Ser Ile Ser Val Asp Ala Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Ser Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Asp Val Thr Tyr His Asp Ile Leu Thr Gly Tyr Ala Gly His Glu  
 100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Ala Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1603

<211> 255

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1603

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Ser Cys Ala Ile Ser Gly Asp Ser Val Gly Ser Asn  
 20 25 30

Gly Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu  
 35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Gln Trp Tyr Ser Asp Tyr Gly  
 50 55 60

Ala Ser Val Arg Ser Arg Ile Thr Ile Asn Ala Asp Thr Ser Lys Asn  
 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val  
 85 90 95

Tyr Tyr Cys Ala Arg Glu Ser Gly Arg Tyr Asp Ile Leu Thr Gly Tyr  
 100 105 110

Tyr Ser Gly Gly Gly Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val  
 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 130 135 140

Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala  
 145 150 155 160

Ser Ile Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile  
 165 170 175

Tyr His Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
 180 185 190

Leu Leu Ile Tyr Lys Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg  
 195 200 205

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser  
 210 215 220

Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn  
 225 230 235 240

Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg  
245 250 255

<210> 1604

&lt;211&gt; 256

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 1604

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Gly Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Ser Tyr  
20 25 30

Glu Leu Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
35 40 45

Ser Tyr Ile Ser Ser Asp Gly Thr Thr Lys Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Asp Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Asp Gly Ala Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Thr  
100 105 110

Thr Val Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val  
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Arg Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly  
145                   150                   155                   160

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly  
165 170 175

Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys  
180 185 190

Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg  
 195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly  
 210 215 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr  
 225 230 235 240

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1605

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1605

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Gln Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Arg Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Tyr Gly Met  
 100 105 110

Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1606

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1606

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Lys Pro Asn Ser Ala Gln Arg Phe  
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Gly Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Glu Gly Ser Ser Gly Tyr Leu Val Gly Trp Gly Arg Gly Thr



100                      105                      110  
 Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
     115                      120                      125  
 Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser  
     130                      135                      140  
 Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser  
     145                      150                      155                      160  
 Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly  
     165                      170                      175  
 Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly  
     180                      185                      190  
 Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu  
     195                      200                      205  
 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser  
     210                      215                      220  
 Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu  
     225                      230                      235                      240  
 Thr Val Leu Gly  
  
 <210> 1607  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1607  
 Gln Val Gln Leu Gln Glu Ser Gly Ser Gly Leu Val Lys Pro Ser Gln  
     1                      5                      10                      15  
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile Ser Ser Gly  
     20                      25                      30  
 Gly Tyr Ser Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
     35                      40                      45  
 Trp Ile Gly Tyr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser  
     50                      55                      60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Arg Ser Lys Asn Gln Phe  
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Lys Gln Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Gln  
100 105 110

Leu Gly Tyr Ala Phe Asp Ile Trp Gly Arg Gly Thr Pro Val Thr Val  
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly  
145 150 155 160

Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn  
165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
180 185 190

Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu  
210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser  
225 230 235 240

Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1608

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1608

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Ser Tyr  
 20 25 30

Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ser Ile Ser Ser Gly Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Met  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Arg Pro Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Ser Ser  
 100 105 110

Ile Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Pro Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser  
 130 135 140

Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
 145 150 155 160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 180 185 190

Met Ile Tyr Glu Gly Gly Lys Arg Pro Ser Gly Val Ser Asn Arg Phe  
 195 200 205

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg  
 225 230 235 240

Ser Thr Arg Ala Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

&lt;210&gt; 1609

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1609

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1610

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1610

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Lys Tyr Ala Gln Glu Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Thr Leu Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Pro Pro  
 100 105 110

Tyr Tyr Tyr Tyr Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140

Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro  
 145 150 155 160

Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly  
 165 170 175

Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys  
 180 185 190

Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg  
 195 200 205

Phe Ser Asp Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly  
 210 215 220

Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp  
 225 230 235 240

Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu  
 245 250 255

Gly

<210> 1611

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1611

Ala Val Gln Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val  
 1 5 10 15

Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp  
 20 25 30

Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser  
 35 40 45

Ala Tyr Asn Gly Asn Thr Lys Tyr Ala Gln Glu Leu Gln Gly Arg Val  
 50 55 60

Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg  
 65 70 75 80

Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Thr  
 85 90 95

Leu Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Pro Pro Tyr Tyr Tyr Tyr

100 105 110  
 Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140  
 Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val  
 145 150 155 160  
 Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val  
 165 170 175  
 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190  
 Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Asp Ser  
 195 200 205  
 Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu  
 210 215 220  
 Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu  
 225 230 235 240  
 Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250  
 <210> 1612  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1612  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gln  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Asp Met His Trp Val Arg Gln Ala Thr Gly Glu Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ala Ile Gly Thr Ala Gly Asp Thr Tyr Tyr Pro Gly Ser Val Lys  
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn Ser Leu Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Gly Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Gly Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Asn Glu Ala  
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1613

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1613

Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15



Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
 20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Asn Tyr Tyr Asp Val Leu Thr Gln Ser Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1614

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1614

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Phe  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Gly Thr Val Asn His Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Asp Asn Ser Gly Thr Tyr Gly Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly  
 130 135 140

Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn  
 145 150 155 160

Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala  
 165 170 175

Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro  
 180 185 190

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile  
 195 200 205

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp  
 210 215 220

Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

<210> 1615

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1615

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Lys Ser His  
 20 25 30

Ser Leu Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Val Leu Pro Val Phe Gly Met Val Asp Ser Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Gly Val Thr Ala Gly Arg Ser Val Tyr Phe Asp Ser Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro  
 130 135 140

Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly  
 145 150 155 160

Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly  
165 170 175

Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu  
195 200 205

Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn  
210 215 220

Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1616

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1616

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ala Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Arg Ser Tyr  
20 25 30

Pro Ile Ser Trp Val Arg Gln Ala Pro Gly Leu Gly Leu Glu Trp Ile  
35 40 45

Gly Gly Ile Ile Pro Ile Val Gly Lys Pro Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Asp Arg Val Ala Ile Ser Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Pro Asn Gly Asp Tyr Ser Gly Tyr Ala Trp Gly Leu Glu  
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly

115

120

125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1617

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1617

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Lys Tyr  
 20 25 30

Ala Val Ser Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Thr Pro Phe Ala Thr Thr Lys Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Gly Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala  
85 90 95

Ser Tyr Phe Asp Gly Ser Gly Tyr Tyr Pro Val Ser Phe Ser Tyr Trp  
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
130 135 140

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
145 150 155 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Glu Ser Gly Asn  
195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1618

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1618

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Tyr His Ser Gly Thr Ala Ser Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Val Asn Tyr Asp Ile Leu Thr Gly Leu Gly Tyr Tyr Phe Asp Tyr  
 100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140

Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys  
 145 150 155 160

Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln  
 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly  
 225 230 235 240

Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1619

<211> 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1619

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly  
 20 25 30

Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu  
 35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser  
 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Ile Asp Thr Ser Lys Asn Gln Phe  
 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95

Cys Val Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Arg Pro Tyr Thr Asp  
 100 105 110

Ala Phe Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220



Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1620

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1620

Gly Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Glu Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  
 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn  
195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1621

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1621

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Thr Tyr  
20 25 30

Ala Met Gln Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Leu  
35 40 45

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ser Asp Thr Ser Ala Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Gly Ala Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Arg Ser Thr Leu  
115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly

130

135

140

Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala  
 145 150 155 160

Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser  
 165 170 175

Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu  
 180 185 190

Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe  
 195 200 205

Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala  
 210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser  
 225 230 235 240

Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

&lt;210&gt; 1622

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1622

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1623

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1623

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Asn Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1624

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1624

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1625  
<211> 254  
<212> PRT  
<213> Homo sapiens

<400> 1625  
Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Asp Tyr  
20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Ser Asn Asn Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Thr Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Gln Tyr Tyr  
100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1626

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1626

Gln Val Gln Leu Gln Gln Trp Gly Ala Glu Leu Leu Lys Pro Ser Glu  
1 5 10 15

Thr Leu Ser Leu Asn Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
20 25 30

Tyr Trp Ser Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Ile  
35 40 45

Gly Glu Ile Lys His Gly Gly Gly Thr Asn Tyr Asn Pro Ser Leu Lys  
50 55 60

Ser Arg Val Ser Ile Ser Leu Asp Thr Ser Lys Asn Gln Phe Ser Leu  
65 70 75 80

Lys Met Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Trp Ala Thr Tyr Tyr Asp Thr Leu Thr Gly Tyr Arg Leu Lys Asp  
100 105 110

His Ala Gly Phe Asp Ile Trp Gly Arg Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln



145                      150                      155                      160

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
180 185 190

Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg  
225 230 235 240

Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

&lt;210&gt; 1627

<211> 252

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1627

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Pro Gly Asp Asp Ile Leu Thr Gly Tyr Tyr Lys Tyr Tyr  
100 105 110

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1628

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1628

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Ser Tyr  
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ala Asp Ile Ser Tyr Asp Gly Thr Lys Glu Phe Tyr Ala Asp Ser Ala  
50 55 60

Arg Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Arg Asn Thr Val Tyr  
 65 70 75 80

Leu Gln Val Asn Ser Leu Gly Val Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Asp Ala Gly Glu Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val  
 100 105 110

Ile Glu Gly Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 180 185 190

Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
 195 200 205

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1629

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1629

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
 20 25 30  
 Thr Tyr Ser Trp Ile Arg Gln Ala Pro Gly Gln Trp Leu Glu Trp Met  
 35 40 45  
 Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln His Phe  
 50 55 60  
 Arg Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80  
 Met Asp Leu Ser Gly Leu Gly Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95  
 Ala Thr Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
 100 105 110  
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser  
 115 120 125  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140  
 Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys  
 145 150 155 160  
 Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Tyr Val Ser Trp Tyr  
 165 170 175  
 Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser  
 180 185 190  
 Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205  
 Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
 210 215 220  
 Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly  
 225 230 235 240  
 Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1630

&lt;211&gt; 246

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1630

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Asn Thr His  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Val Tyr Asn Gly Asn Ala Ile Ser Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Ile Thr Met Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe  
 65 70 75 80

Met Glu Leu Lys Ser Leu Arg Ser Asp Asp Thr Gly Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Gly Ser Trp Ser Gly Leu Asp Leu Asp Tyr Trp Gly Gln  
 100 105 110

Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser  
 130 135 140

Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser  
 145 150 155 160

Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro  
 165 170 175

Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser  
 195 200 205

Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1631

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1631

Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp

165

170

175

Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asp  
 180 185 190

Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Gly Gly Leu  
 225 230 235 240

Ser Val Phe Gly Ala Gly Thr Lys Val Thr Val Leu Gly  
 245 250

&lt;210&gt; 1632

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1632

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Thr Ser Gly Thr Thr Phe Arg His Ser  
 20 25 30

Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Leu  
 35 40 45

Gly His Ile Ile Pro Val Phe Glu Thr Ala His Leu Ser Asp Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Ser Gly Tyr Asn Ser Gly Tyr Phe Glu Ser Tyr Asp Met  
 100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Thr Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Asn Gly Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1633

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1633

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
20 25 30

Asp Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
65 70 75 80



Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Leu Asp Val Trp Gly  
100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1634

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1634

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Ser Arg Ser Ser Arg Ser Ile Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Asp Tyr Asp Ile Leu Thr Asp Tyr Ser Asn Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1635

<211> 249

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1635

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Pro Leu Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Gly  
 100 105 110

Asn Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Arg Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Val  
 130 135 140

Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly Asp Arg Val  
 145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala Trp  
 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala  
 180 185 190

Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser  
 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Thr Leu Gln Pro Glu Asp Val  
 210 215 220

Ala Thr Tyr Tyr Cys Glu Asn Tyr Asn Ser Val Pro Leu Ser Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Glu Ile Lys Arg  
 245

<210> 1636

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1636

Gln Val Gln Leu Val Gln Ser Gly Ala Gly Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Lys Asp Tyr Asp Ile Leu Thr Gly Tyr Trp Arg Asp Glu  
 100 105 110

Leu Leu Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile

180

185

190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1637

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1637

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg His  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Gly Asp Leu Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys Asp Pro Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Ala  
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

1950

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Glu Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1638

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1638

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr  
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Glu Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Thr Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Phe Asp Gln Leu Leu Ala Arg Gly His Gly Met Asp Val  
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
 130 135 140

Pro Pro Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro  
 165 170 175

Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1639

<211> 244

<212> FRT

<213> Homo sapiens

<400> 1639

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
145 150 155 160

Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro Gly Gln  
165 170 175

Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser Gly Ile  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
195 200 205

Ile Thr Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser  
210 215 220

Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Thr Lys Leu  
225 230 235 240

Thr Val Leu Gly

<210> 1640

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1640

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser



1				5					10								15
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Gly	Tyr		
			20						25					30			
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Trp	Ile	Asn	Pro	Asn	Ser	Gly	Gly	Thr	Asn	Tyr	Ala	Gln	Lys	Phe		
	50					55					60						
Gln	Gly	Trp	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Ile	Ser	Thr	Ala	Tyr		
	65				70					75						80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85					90					95			
Ala	Arg	Ala	Arg	Gly	Ser	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Tyr	Arg	Pro		
		100						105					110				
Gly	Asp	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val		
	115						120					125					
Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly		
	130					135					140						
Ser	Gln	Ser	Val	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Gly	Ser	Pro	Gly		
	145				150					155					160		
Gln	Ser	Ile	Thr	Ile	Ser	Cys	Thr	Gly	Thr	Ser	Ser	Asp	Val	Gly	Gly		
		165						170					175				
Tyr	Asn	Tyr	Val	Ser	Trp	Tyr	Gln	Gln	His	Pro	Gly	Lys	Ala	Pro	Lys		
	180							185					190				
Leu	Met	Ile	Tyr	Glu	Gly	Ser	Lys	Arg	Pro	Ser	Gly	Val	Ser	Asn	Arg		
	195						200					205					
Phe	Ser	Gly	Ser	Lys	Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Ser	Gly		
	210					215					220						
Leu	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ser	Ser	Tyr	Thr	Thr		
	225				230					235					240		

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1641

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1641

Gln Val Gln Leu Gln Gln Ser Gly Ala Lys Val Lys Arg Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Pro Ser Gly Ala Thr Phe Ser Gly Tyr  
20 25 30

Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu  
130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn

195

200

205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1642

&lt;211&gt; 255

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1642

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Asn His Gly Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Ala Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Pro Arg Ser  
 100 105 110

Lys Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser  
 130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 145 150 155 160

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
165 170 175

Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu  
180 185 190

Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln  
210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu  
225 230 235 240

Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1643

<211> 248

<212> FRT

<213> Homo sapiens

<400> 1643

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1644

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1644

Lys Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
100 105 110

Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1645

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1645

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Pro Glu  
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Leu Asn Gly Tyr

20	25	30
Tyr Trp Gly Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile		
35	40	45
Gly Glu Thr Asn His Arg Gly Thr Thr Asn Tyr Asn Pro Ser Leu Lys		
50	55	60
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn His Val Leu Leu		
65	70	75
Arg Met Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala		
85	90	95
Arg Arg Tyr Ser Asp Ala Leu Thr Gly Tyr Ser Leu Gly Ala Phe Asp		
100	105	110
Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly		
115	120	125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr		
130	135	140
Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser		
145	150	155
Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp		
165	170	175
Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly		
180	185	190
Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser		
195	200	205
Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu		
210	215	220
Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe		
225	230	235
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly		
245	250	

&lt;210&gt; 1646

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1646

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Thr Phe  
 20 25 30

Asn Ser Ser Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu  
 35 40 45

Glu Trp Met Gly Ile Ile His Pro Ser Gly Gly Ser Thr Ser Gln Val  
 50 55 60

Gln Lys Phe Gln Gly Arg Leu Thr Met Thr Arg Asp Thr Pro Thr Ser  
 65 70 75 80

Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val  
 85 90 95

Tyr Tyr Cys Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Pro Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly  
 180 185 190

Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp



210                      215                      220  
 Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val  
 225                      230                      235                      240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                          245                      250  
 <210> 1647  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1647  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Met Lys Lys Pro Gly Ala  
   1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Phe Asp Ser  
                          20                      25                      30  
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
                          35                      40                      45  
 Gly Trp Ile Asn Ala Asn Asn Gly Gly Thr Lys Tyr Ala Gln Lys Phe  
                          50                      55                      60  
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
                          65                      70                      75                      80  
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                          85                      90                      95  
 Ala Arg Asp Tyr Pro Ile Asp Val Leu Thr Gly Arg Arg Thr Lys Asn  
                          100                      105                      110  
 Trp Phe Asp Pro Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
                          115                      120                      125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
                          130                      135                      140  
 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
                          145                      150                      155                      160  
 Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
                          165                      170                      175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1648

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1648

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Thr Val Ile Ser Asp Asp Gly Asn Asn Val Asn Tyr Glu Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Gln Ser Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Val Asp Arg Leu Leu Met Gln Tyr Asn Tyr Tyr Met  
100 105 110

Asp Ala Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1649

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1649

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser His  
 20 25 30

Tyr Ile Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Val Met Pro Ala Leu Gly Thr Ala Asn Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Phe Thr Ala Asp Lys Ser Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Gln Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1650

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1650

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Asn Ala  
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35

40

45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala  
 50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Lys Asp Asp Ser Lys Asn Thr  
 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
 85 90 95

Tyr Cys Thr Thr Asp Ala Tyr Tyr Asp Ile Leu Thr Gly Trp Val Tyr  
 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1651

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1651

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Asn Tyr Ser Ile Ser Ser Gly  
 20 25 30

Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp  
 35 40 45

Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu  
 50 55 60

Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser  
 65 70 75 80

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Phe Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Asp Met Asp  
 100 105 110

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly

225

230

235

240

Thr Lys Leu Thr Val Leu Gly  
245

&lt;210&gt; 1652

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1652

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Ser Trp Val Arg His Thr Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ala Ile Ser Gly Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys  
165 170 175

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro  
180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1653

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1653

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser His Asn Ala Asp His Thr Tyr Ser Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Ala Thr Arg Met Asp Val Leu Thr Arg Tyr Tyr Ser Asp Phe Trp  
 100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
 130 135 140



Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145 150 155 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1654

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1654

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1655

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1655

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
20 25 30

Thr Phe Ser Trp Ile Arg Gln Ala Pro Gly His Trp Leu Glu Trp Met  
35 40 45

Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln Lys Ser

50

55

60

Arg Gly Gly Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Glu Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Ala Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser  
180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
225 230 235 240

Lys Leu Thr Val Leu Gly  
245

&lt;210&gt; 1656

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1656

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Arg Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Gly Thr Glu Asn Tyr Ser Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ser Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Gln Tyr Tyr Cys  
 85 90 95

Ala Ala Asp Thr Arg Val Ile Gly Ile Gln Leu Trp Glu Arg Gly Ala  
 100 105 110

Phe Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

245

250

&lt;210&gt; 1657

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1657

Pro Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Val Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1658

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1658

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1659

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1659

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Leu Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Gly Arg Arg Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Gly Arg  
 100 105 110

Gly Glu Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
 165 170 175

Val Ser Trp Tyr His Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser  
 225 230 235 240

Glu Phe Leu Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1660

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1660

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr



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65      70      75      80
Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
      85      95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
      100     105     110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
      115     120     125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr
      130     135     140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Ala Val Arg Ile Thr
      145     150     155     160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln
      165     170     175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg
      180     185     190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr
      195     200     205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr
      210     215     220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly
      225     230     235     240

Gly Thr Lys Leu Thr Val Leu Gly
      245

<210> 1661
<211> 247
<212> PRT
<213> Homo sapiens

<400> 1661
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
  1          5          10          15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Ser Ser Tyr
          20          25          30

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Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Pro Ala Arg Tyr Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Lys Thr Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Thr Ser Leu Met Asn Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1662

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1662

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Ala Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly His Thr Phe Thr Ser Tyr  
 20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Thr Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Pro Tyr Asp Val Leu Thr Gly Tyr Leu Ser Gly Asn Phe  
 100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1663

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1663

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
 20 25 30

Asp Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
 50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
 65 70 75 80

Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Phe Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1664

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1664

Gln Val Gln Leu Val Gln Ser Gly Gly Ala Leu Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr  
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Val Ser Trp Asn Ser Gly Ser Ile Ala Tyr Ala Glu Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Ser  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Glu Lys Ala Arg Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Ser Ala Trp Gly Gly Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu  
 115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
145 150 155 160

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
165 170 175

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
180 185 190

Ala Pro Lys Leu Met Ile Tyr Glu Gly Gly Lys Arg Pro Ser Gly Val  
195 200 205

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
210 215 220

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser  
225 230 235 240

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1665

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1665

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Thr Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Thr Pro Ile Leu Gly Thr Pro Asn Leu Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Ala Tyr

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65      70      75      80
Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
      85      90      95

Ala Thr Leu Asn Leu Glu Lys Thr Val Ile Arg Gly Phe Gly Tyr Phe
      100      105      110

Asp Leu Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly
      115      120      125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr
      130      135      140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr
      145      150      155      160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln
      165      170      175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg
      180      185      190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr
      195      200      205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr
      210      215      220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly
      225      230      235      240

Gly Thr Lys Leu Thr Val Leu Gly
      245

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<210> 1666
<211> 252
<212> PRT
<213> Homo sapiens
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<400> 1666
Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser
 1             5             10             15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
          20          25          30
```

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Arg Gly  
100 105 110

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val  
130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1667



&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1667

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Leu Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1668  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 1668  
 Gly Val Gln Leu Val Gln Ser Gly Ser Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1669

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1669

Glu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Arg Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala His Gly Gly Thr Phe Ser Ser Ser  
 20 25 30

Met Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Phe Ile Pro Ile Phe Gly Thr Glu Arg Lys Ala Pro Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Ser Pro Tyr Asp Thr Leu Thr Gly Tyr Val Tyr Asn Gly Val  
 100 105 110

Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Arg Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1670

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1670

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Ala Val Leu Gly  
245

<210> 1671  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 1671  
Gln Val Thr Leu Lys Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Thr Asn Tyr Ala Glu Lys Phe  
50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Thr Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Ala Ala Ala Gly Ala Arg Thr Leu Gly Tyr Phe Gly Met  
100 105 110

Asp Val Trp Gly Gly Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val  
180 185 190

Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu  
225 230 235 240

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1672

<211> 253

<212> FRT

<213> Homo sapiens

&lt;400&gt; 1672

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Asp  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser His  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Val Ile Asn Pro Thr Gly Ser Ala Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Asp Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Val Ser Gly His Asp Ile Leu Thr Gly Tyr Ser Tyr Arg  
 100 105 110

Tyr Phe Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1673

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1673

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Met Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
20 25 30

Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Glu Asn Ser Gly Gly Thr Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Leu Asn Ser Leu Ser Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Asn Ser Pro Met Tyr Tyr Asp Arg Leu Thr Gly Phe Tyr Pro Ser  
100 105 110

Gly Tyr Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190



Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1674

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1674

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Tyr Asn Asp Asn Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val  
130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1675

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1675

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Arg Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Thr Asn Phe  
 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Pro Ser Ser Ala Gly Thr Thr Ile Gly Leu Gly Ser Phe

100                      105                      110  
 Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
     115                      120                      125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
     130                      135                      140  
 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
     145                      150                      155                      160  
 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Gly Trp Tyr Gln Gln  
     165                      170                      175  
 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
     180                      185                      190  
 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
     195                      200                      205  
 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
     210                      215                      220  
 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
     225                      230                      235                      240  
 Gly Thr Lys Leu Thr Val Leu Gly  
     245  
 <210> 1676  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1676  
 Ala Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ser  
     1                      5                      10                      15  
 Ser Val Asn Val Ser Cys Lys Val Ser Gly Gly Thr Phe Gly Ser Ser  
     20                      25                      30  
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
     35                      40                      45  
 Gly Arg Ile Ile Pro Val Leu Gly Thr Thr Asn Tyr Ala Gln Arg Phe  
     50                      55                      60

Gln Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Asn Thr Val Asn  
65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Ala Arg Glu Thr Arg Lys Tyr Thr Ser Ser Pro Pro Tyr Asn Tyr Tyr  
100 105 110

Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
130 135 140

Leu Ala Gln Asp Pro Ala Val Ser Val Ala Ser Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1677

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1677

Glu Val Gln Leu Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
1 5 10 15

Ser Val Arg Val Ser Cys Arg Phe Thr Glu Ser Pro Ile His Trp Val  
 20 25 30

Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Leu Gly Gly Phe Asp Arg  
 35 40 45

Glu Glu Gly Lys Thr Leu Tyr Ala Gln Lys Phe Gln Gly Arg Val Ile  
 50 55 60

Leu Thr Glu Asp Phe Leu Thr Lys Thr Ala Tyr Leu Glu Met Arg Thr  
 65 70 75 80

Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Val Phe Asp Gln Phe  
 85 90 95

Ser Val Gly Gly Arg His Ala Phe Asp Leu Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
 130 135 140

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
 145 150 155 160

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
 165 170 175

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val  
 180 185 190

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
 195 200 205

Ile Ser Gly Leu Gln Ala Glu Asp Gly Ala Asp Tyr Tyr Cys Ser Ser  
 210 215 220

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

&lt;210&gt; 1678

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1678

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Lys Gly  
 100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140

Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160

Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175

Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp  
 180 185 190

Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205

Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp  
 210 215 220

Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
 225 230 235 240

Leu Gly

<210> 1679

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1679

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Glu Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1680

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1680

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly



115

120

125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Thr Ala  
 130 135 140

Cys Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Val Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Ser His Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Ile Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Ala Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1681

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1681

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1682

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1682

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
 195 200 205

Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1683

<211> 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1683

Gly Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
 100 105 110

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1684

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1684

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1685

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1685

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Gln Gly Thr Pro Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro

130                      135                      140

Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile Ser Cys Thr Gly  
 145                      150                      155                      160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
                     165                      170                      175

His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp Val Ser Lys Arg  
                     180                      185                      190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
                     195                      200                      205

Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr  
                     210                      215                      220

Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile Phe Gly Gly Gly  
 225                      230                      235                      240

Thr Lys Leu Thr Val Leu Gly  
                     245

&lt;210&gt; 1686

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1686

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1                      5                      10                      15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Ser Ser Arg Phe  
                     20                      25                      30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                     35                      40                      45

Gly Gly Ile Asn Arg Ile Arg Pro Thr Leu Asn Ile Ala Gln Lys Phe  
                     50                      55                      60

Gln Gly Arg Leu Val Ile Asn Val Asp Glu Leu Thr Asn Thr Thr Tyr  
                     65                      70                      75                      80

Met Glu Leu Thr Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
                     85                      90                      95

Thr Arg Asp Trp Gly His Trp Phe Asp Pro Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser  
130 135 140

Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser  
145 150 155 160

Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly  
165 170 175

Lys Ala Pro Lys Leu Met Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly  
180 185 190

Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu  
195 200 205

Thr Ile Ser Gly Leu Gln Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Ser  
210 215 220

Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu  
225 230 235 240

Thr Val Leu Gly

<210> 1687

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1687

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45



Gly Gly Ile Leu Pro Ile Phe Gly Ser Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Gly Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1688

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1688

Gln Val Gln Leu Val Gln Ser Gly Ala Lys Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 20 25 30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60  
 Gln Gly Arg Ala Thr Ile Thr Ala Asp Lys Ala Thr Ser Thr Ala Tyr  
 65 70 75 80  
 Met Glu Val Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Thr Glu Pro Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Ser Tyr Phe  
 100 105 110  
 Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140  
 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160  
 Ser Cys Thr Gly Thr Ser Ser Asp Val Asp Gly Tyr Asn Tyr Val Ser  
 165 170 175  
 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190  
 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205  
 Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
 210 215 220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1689

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1689

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1690

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1690

Gln Val Gln Leu Gln Gln Trp Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Gln Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Gly Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95

Ala Asn Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Gly Gly Gly Ala  
 100 105 110

Phe Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr

145                      150                      155                      160

Ile Ser Cys Thr Gly Thr Ser Gly Asp Val Gly Gly Tyr Asn Tyr Val  
165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

&lt;210&gt; 1691

&lt;211&gt; 246

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1691

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Asn Tyr  
20 25 30

Gly Val Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Tyr Asp Gly Thr Thr Lys Tyr Ala Gln Asn Phe  
50 55 60

Gln Asp Arg Val Thr Met Thr Thr Asp Thr Leu Thr Lys Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Thr Arg Gly Ser Arg Val Arg Gly Val Thr Pro Asp Leu Trp Gly Arg  
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser  
130 135 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr  
145 150 155 160

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His  
165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro  
180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala  
195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr  
225 230 235 240

Lys Leu Thr Val Leu Gly  
245

<210> 1692

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1692

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
145 150 155 160

Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln  
165 170 175

Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
195 200 205

Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser  
210 215 220

Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu  
225 230 235 240

Thr Val Leu Gly

<210> 1693  
<211> 256  
<212> PRT  
<213> Homo sapiens

<400> 1693  
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Met Lys Lys Ser Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser His Ser  
20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Thr Pro Met Phe Asp Thr Val Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Ile Ala Asp Lys Leu Thr Asn Thr Val His  
65 70 75 80

Met Glu Val Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Ser Glu Cys Ser Gly Ser Ser Cys Pro Ala Arg Gln Pro Pro Tyr  
100 105 110

Tyr Gln Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val  
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly  
145 150 155 160

Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn  
165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
180 185 190

Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu  
210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser  
225 230 235 240

Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255



&lt;210&gt; 1694

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1694

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
 130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
 145 150 155 160

Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln  
 165 170 175

Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
 195 200 205

Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser  
 210 215 220

Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1695

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1695

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Met Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Asn Tyr  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met  
 35 40 45

Gly Ile Ile His Pro Ser Gly Gly Ser Thr Ser Gln Val Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val

165

170

175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1696

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1696

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
 20 25 30

Gly Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
 50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
 65 70 75 80

Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Leu Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1697

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1697

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Arg Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Ala Leu Thr Gln Pro Ala  
130 135 140

Ser Val Ser Gly Ser Arg Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
145 150 155 160

Thr Thr Gly Asp Val Gly Gly Tyr Asp Tyr Val Ser Trp Tyr Gln Gln  
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn Arg  
180 185 190

Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Phe Cys Ser Thr Tyr Ala Pro Pro Gly Ile Ile Met Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1698

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1698

Gln Val Thr Leu Lys Glu Ser Gly Ala Gln Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
35 40 45

Gly Arg Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val  
130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr  
145 150 155 160

Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp  
180 185 190

Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe  
225 230 235 240

Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1699

<211> 254

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1699

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Tyr Arg Asn Tyr Asp Ile Leu Thr Gly His Pro Tyr Tyr  
 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Pro Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1700

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1700

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Lys Ile Asn Pro Ser Gly Thr Ser Val Thr Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Arg Asp Thr Ser Thr Ser Thr Asn Tyr  
 65 70 75 80

Met Glu Val Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Gln His Tyr Asp Ile Leu Thr Gly Tyr Ser Gln Glu Pro Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met  
 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser



180

185

190

Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala  
 210 215 220

Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg  
 245

&lt;210&gt; 1701

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1701

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys Asp Gln Thr Tyr Tyr Asp Ile Leu Thr Gly His Tyr Tyr Tyr  
 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1702

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1702

Gln Val Gln Leu Gln Gln Trp Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
20 25 30

Thr Tyr Ser Trp Ile Arg Gln Ala Pro Gly Gln Trp Leu Glu Trp Met  
35 40 45

Gly Ser Ile Asn Pro Val Arg Gly Thr Ala Asn Tyr Ala Gln His Leu  
50 55 60

Arg Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Gly Leu Gly Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Thr Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
130 135 140

Pro Ala Met Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Arg Asn Asn Arg Pro Ser  
180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
225 230 235 240

Lys Leu Thr Val Leu Gly  
245

<210> 1703

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1703

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Leu Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Arg Ser Asp Asp  
100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1704

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1704

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

[illegible]

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1705

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1705

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asp Thr Ala

195

200

205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Asn Ser Arg Asp Ser Ser Ser Thr His Arg Gly Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1706

&lt;211&gt; 251

&lt;212&gt; FRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1706

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Asn  
 20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Glu Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1707

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1707

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110



Lys Gly Thr Leu Val Thr Val Ser Pro Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
 195 200 205

Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1708  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 1708  
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Gln Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Gly Leu Tyr Asp Ile Leu Thr Gly Arg Pro Ala Thr Asp  
100 105 110

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser  
130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp  
165 170 175

Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1709

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1709

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Asn Arg Tyr

20

25

30

Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Arg Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Thr Thr Asp Arg Phe Gly Ala Lys Asp Val Thr Ala Arg Trp Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala  
 130 135 140

Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Pro Tyr Asp  
 165 170 175

Val His Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Met  
 180 185 190

Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
 225 230 235 240

Gly Ser Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
 245 250

&lt;210&gt; 1710

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1710

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr  
 100 105 110

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140

Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser  
 145 150 155 160

Pro Gly Gln Ser Leu Thr Ile Ser Cys Thr Gly Thr Ser Arg Asp Val  
 165 170 175

Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180 185 190

Pro Lys Leu Ile Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Ser  
 195 200 205

Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile

210

215

220

Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr  
 225 230 235 240

Arg Ser Ser Ser Thr Met Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

&lt;210&gt; 1711

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1711

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Phe Val Asn Trp Tyr Gln Gln Val Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Ile Gln Arg Pro Ser Asp  
180 185 190

Thr Gly Val Pro Asp Arg Phe Ser Gly Ala Lys Ser Ala Thr Ser Ala  
195 200 205

Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Gly Ala Asp Tyr Tyr  
210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly  
225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1712

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1712

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Val Pro Lys Leu Val Ile Tyr Gly  
180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Arg Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Tyr Tyr Tyr Cys Gln Ser Tyr Asp Thr Gly Leu Ser Gly Leu  
225 230 235 240

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
245 250

<210> 1713

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1713

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
1 5 10 15

Ser Val Arg Val Ser Cys Glu Ala Ser Gly Gly Lys Phe Ser Asn Tyr  
20 25 30

Ser Leu Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Arg Ile Ile Pro Val Leu Asp Ile Val Asp Tyr Ala Pro Lys Phe  
50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Lys Leu Thr Gly Thr Ile Phe  
65 70 75 80

Met Glu Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Glu Leu Gly His Arg Glu Gly Gly Tyr Trp Tyr Ser Pro Tyr  
100 105 110

Asn Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Gly Val Ser  
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Val Gly Ser Asn Thr Val Asn  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile His Thr  
180 185 190

Asn Asp Gln Met Pro Ser Trp Val Pro Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Arg Gly Leu Arg Ser Glu Asp  
210 215 220

Glu Ala Glu Tyr Phe Cys Ala Thr Trp Asp Asp Ser Leu Asn Ala Val  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1714

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1714

Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Arg Gly Pro Phe Glu Asn Tyr



20

25

30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Val Pro Ile Ser Gly Ala Thr Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Asp Arg Leu Thr Leu Thr Ala Asp Glu Leu Thr Thr Thr Val Phe  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Asn Met Gly Ala Ser Ala Ala Ala Asp Phe Trp Gly Arg Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro  
130 135 140

Ser Val Ser Val Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly  
145 150 155 160

Asp Val Leu Ala Asn Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly  
165 170 175

Gln Ala Pro Val Val Val Met Tyr Gln Asp Asn Glu Arg Pro Ser Gly  
180 185 190

Thr Pro Glu Arg Leu Ser Gly Ser Arg Ser Gly Ser Thr Val Thr Leu  
195 200 205

Thr Ile Ser Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
210 215 220

Ser Ala Asp Ser Thr Gly Thr Tyr Ala Leu Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

&lt;210&gt; 1715

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1715

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Met Asn Val  
 100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Asp Ala Tyr Val Ala Trp Phe  
 165 170 175

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn Asn  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala

210

215

220

Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Val Ile Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Val Asn Val Leu Gly  
 245 250

&lt;210&gt; 1716

&lt;211&gt; 258

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1716

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Met Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Thr Asn  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Val Ile Pro Ile Phe Gly Lys Ser Lys Thr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Lys Ala Thr Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Thr Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Ser Gly Ser His Tyr Asp Leu Leu Thr Gly Leu Leu Val  
 100 105 110

Ala Ala Asn Gly Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro  
 145 150 155 160

Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Thr Gly  
 165 170 175

Ala Gly Tyr Asp Val His Trp Tyr Gln His Leu Pro Gly Thr Ala Pro  
180 185 190

Lys Leu Val Ile Tyr Asp Ser Gly Asn Arg Pro Ser Gly Val Pro Asp  
195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr  
210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp  
225 230 235 240

Thr Ser Leu Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
245 250 255

Leu Gly

<210> 1717

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1717

Gly Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
100 105 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val Met  
 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser  
 180 185 190

Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala  
 210 215 220

Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln  
 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg  
 245

<210> 1718

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1718

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
65. 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
100 105 110

Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1719

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1719

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr